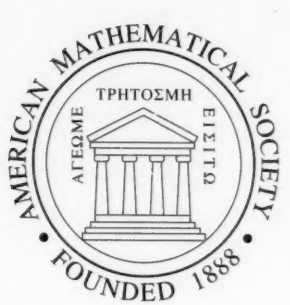

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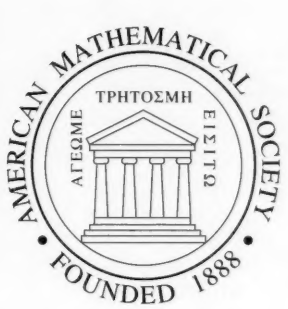

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Głazek, Kazimierz ★ A guide to the literature on semirings and their applications in mathematics and information sciences. **2004i:16065**
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00A35 Methodology of mathematics, didactics [see also 97Cxx, 97Dxx]

(Benac, Theodore J.) *see* **Waismann, Friedrich**, **2004a:00012**
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Poincaré, Henri ★ Science and method.
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00A69 General applied mathematics {For physics, see 00A79 and Sections 70 through 86.}

Adam, John A. ★ Mathematics in nature. **2004k:00008**
(Alexander, Paul) *see* **Zeilberger, Doron**, **2004g:00008**

Artmann, Benno The cloisters of Hauterive [1098219]. (*see* **2004e:00009**)
Assayag, Gérard *see* **Mathematics and music**, **2004a:00014** *and* **Dubnov, Shlomo**, (**2004a:00014**)
Bader, Rolf *see* **Schneider, Albrecht**, **2004k:00009**
Bibby, Neil Tuning and temperament: closing the spiral. (English summary)
Cross, Jonathan Composing with numbers: sets, rows and magic squares. (English summary)
D'Attellis, Carlos Enrique The tempered scale as an optimization process: from Pythagoras to J. S. Bach. (English summary) (*see* **2004h:00015**)
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Dubnov, Shlomo (*with* Assayag, Gérard) Universal prediction applied to stylistic music generation. (English summary) (*see* **2004a:00014**)
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(Gregersen, Niels Henrik) *see* **From complexity to life**, **2004f:00007**
Haluška, Ján ★ The mathematical theory of tone systems. **2004j:00005**
Hartmann, Alexander K. (*with* Rieger, Heiko) ★ Optimization algorithms in physics. (English summary) **2004b:00006**
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Laura, Patricio A. A. *see* **Schinzinger, Roland**
Leman, Marc Expressing coherence of musical perception in formal logic. (English summary) (*see* **2004a:00014**)
Mazzola, Guerino ★ The topos of music. (English summary) **2004a:00013**
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Risset, Jean-Claude Computing musical sound. (English summary) (*see* **2004a:00014**)
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(Rodrigues, José-Francisco) *see* **Mathematics and music**, **2004a:00014**
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Dershowitz, Nachum *see* **Reingold, Edward M.**, **2004j:01009**
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Pilsen ★ MODELLING 2001.
Ravello ★ M. C. Escher's legacy. **2004e:00001**
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00A71 Theory of mathematical modeling

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(Lichnewsky, Alain) *see* **Another look at mathematical modelling**, **2004g:00009**
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E, Weinan (*with* Engquist, Björn) Multiscale modeling and computation. **2004m:65163**
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Friedman, Avner (*with* Ross, David Stewart) ★ Mathematical models in photographic science. **2004c:82119**
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Natke, H. G. ★ Introduction to multi-disciplinary model-building. **2004b:93006**
Ross, David Stewart *see* **Friedman, Avner**, **2004c:82119**
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00A72 General methods of simulation

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00A79 Physics (use more specific entries from Sections 70 through 86 when possible)

(Angel, Leonard) *see* **Pérez Laraudogoitia, Jon**, **2004g:00011**
Boi, Luciano Theories of space-time in modern physics. (English summary) **2004m:00009**
Davey, Kevin Is mathematical rigor necessary in physics? (English summary) **2004g:00010**
Earman, John What time reversal invariance is and why it matters. (English summary) **2004a:00015**
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Muller, Frederik A. Refutability revamped: how quantum mechanics saves the phenomena. (English summary) **2004a:00016**
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Bitbol, Michel Critères d'existence et preuves d'existence. (English and French summaries) [Criteria and proofs of existence] **2004j:00003**
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Lange, Marc Bayesianism and unification. A reply to W. C. Myrvold: "A Bayesian account of the virtue of unification" [Philos. Sci. **70** (2003), no. 2, 399–423]. (English summary)
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Lowe, E. J. *see* **McCall, Storrs**, **2004a:00008**
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Popper, Karl Beyond the search for invariants. (Russian) **2004i:01001**
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00A99 Miscellaneous topics

Barrow, John D. Questions without answers. (Italian) (*see* **2004f:00016**)
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Knuth, Donald E. ★ Things a computer scientist rarely talks about. (English summary) **2004a:00017**
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00Bxx Conference proceedings and collections of papers

00B05 Collections of abstracts of lectures

(Aksent'ev, L. A.) *see* **Geometric theory of functions and boundary value problems**
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Kazan' ★ Лобачевские чтения — 2001. (Russian) [Lobachevskiĭ lectures — 2001]
— ★ Геометрическая теория функций и краевые задачи. (Russian) [Geometric function theory and boundary value problems]
— ★ Лобачевские чтения—2002. (Russian) [Lobachevskiĭ lectures—2002]
Kiev ★ Dynamical system modelling and stability investigation. **2004g:00012**
Lexington, VA ★ Report on the Summer Symposium in Real Analysis XXVI. **2004d:00009**
Lobachevskiĭ lectures ★ Лобачевские чтения — 2001. (Russian) [Lobachevskiĭ lectures — 2001]
— ★ Лобачевские чтения—2002. (Russian) [Lobachevskiĭ lectures—2002]
Symposium:
  Real Analysis ★ Report on the Summer Symposium in Real Analysis XXVI. **2004d:00009**
Tula ★ Алгебра и теория чисел: современные проблемы и приложения. (Russian) [Algebra and number theory: modern problems and applications] **2004k:00011**

Items with secondary classifications in 00B05

(Aksent'ev, L. A.) *see* **Theory of functions, its applications and related questions**
(Nasyrov, S. R.) *see* **Theory of functions, its applications and related questions**

Items listed otherwise than by author

Kazan' ★ Теория функций, её приложения и смежные вопросы. (Russian) [Theory of functions, its applications and related questions]
Theory of functions, its applications and related questions ★ Теория функций, её приложения и смежные вопросы. (Russian) [Theory of functions, its applications and related questions]

00B10 Collections of articles of general interest

(Farmelo, Graham) *see* **It must be beautiful**, **2004g:00013**

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It must be beautiful ★ It must be beautiful. **2004g:00013**

00B15 Collections of articles of miscellaneous specific content

(Abraham, Ajith) *see* **Advances in intelligent systems and applications**
(Adelson, Beth) *see* **Work and creative processes of the 2002 Franklin Institute laureates**
(Al'beverio, S. A.) *see* **Nonlinear hyperbolic equations, spectral theory, and wavelet transformations**, **2004h:00016**
(Alt, Walter) *see* **Reports: Interdisciplinary Center for Scientific Computing (IZWR)**, **2004i:00009**
(Arató, Mátyás) *see* **Hungarian applied mathematics and computer applications**
(Athreya, Siva R.) *see* **Connected at infinity**, **2004f:00009**
(Atiyah, Michael Francis) *see* **Fields Medallists' lectures**, **2004k:00012**
(Awrejcewicz, Jan) *see* **Dynamical systems/theory and applications**
Banasiak, Jacek Preface [Special issue: Evolution equations in applications].

(Benczúr, András A.) *see* **Hungarian applied mathematics and computer applications**
(Benkadda, Sadruddin) *see* **Chaotic transport and complexity in classical and quantum dynamics**
(van Benthem, Johan) *see* **Special Issue: Connecting the different faces of information**
(Berleant, Daniel) *see* **Special Issue: Dependable reasoning about uncertainty**
(di Bernardo, Mario) *see* **Special Issue: Switching and systems**
(Bertero, M.) *see* **Special section on imaging**
(Bhatia, Rajendra) *see* **Connected at infinity**, **2004f:00009**
(Bornholdt, Stefan) *see* **Handbook: Graphs and networks**, **2004f:00010**
(Bukhres, Omran) *see* **Bioinformatics tools and applications**
(Cash, J. R.) *see* **Stochastic analysis with applications to mathematical finance**
(Chen, Jian Er) *see* **Discrete mathematics and theoretical computer science**
(Chen, Song Qiao) *see* **Discrete mathematics and theoretical computer science**
(Chen, Suowang) *see* **Discrete mathematics and theoretical computer science**
(Chung, Henry Shu-Hung) *see* **Special Issue: Switching and systems**
(Dahlke, Stephan) *see* **Wavelet and fractal methods in science and engineering**
(D'Attellis, Carlos Enrique) *see* **Mathematics and simulation with biological, economical and musicoacoustical applications**, **2004h:00015**
Davies, Martin (*with* Stoljar, Daniel) Introduction [The two-dimensional framework and its applications: metaphysics, language, and mind].
(Debnath, Lokenath) *see* **Wavelets and signal processing**, **2004c:00012**
(Demuth, Michael) *see* **Nonlinear hyperbolic equations, spectral theory, and wavelet transformations**, **2004h:00016**
Denker, Manfred (*with* Sarig, Omri) Foreword [Special issues on geometric and probabilistic aspects of dynamical systems].
(Eder, Johann) *see* **Bioinformatics tools and applications**
(Elizarov, A. M.) *see* **At the turn of the 20th–21st centuries**, **2004e:00008**
(Fokas, Athanassios S.) *see* **Integrability, topological solitons and beyond**
(Frieden, Willi) *see* **Wavelet and fractal methods in science and engineering**
Fuhrmann, Daniel R. Guest editorial [Workshop on Genomics, Signal Processing and Statistics].
(Gao, David Yang) *see* **Advances in mechanics and mathematics**, **2004g:00014**
(Golumbic, Martin Charles) *see* **Artificial intelligence and mathematics**
(Greven, Andreas) *see* **Entropy**, **2004j:00006**
(Guts, A. K.) *see* **Mathematical structures and modeling**, **2004b:00009** *and* **2004j:00008**
(Hasnah, Ahmad M.) *see* **Special Issue: Applied computations**
(Hermann, Martin) *see* **Reports: Interdisciplinary Center for Scientific Computing (IZWR)**, **2004i:00009**
(Iagolnitzer, Daniel) *see* **Fields Medallists' lectures**, **2004k:00012**
(Jaam, Jihad Mohamad) *see* **Special Issue: Applied computations**
(Jäger, Willi) *see* **Mathematics—key technology for the future**, **2004d:00011**
(Jansen, Klaus) *see* **Approximation algorithms**
(Jebelean, Tudor) *see* **Symbolic and numeric algorithms on scientific computing**
(Jerison, David) *see* **Current developments in mathematics**, **2004b:00008**
(Joswig, Michael) *see* **Algebra, geometry, and software systems**, **2004e:00007**
(Karasev, Mikhail) *see* **Asymptotic methods for wave and quantum problems**, **2004c:00009**
(Katok, Svetlana) *see* **MASS selecta**, **2004g:00015**
(Keller, Gerhard) *see* **Entropy**, **2004j:00006**
(Khuller, Samir) *see* **Approximation algorithms**
(Kirkilionis, Markus) *see* **Trends in nonlinear analysis**, **2004c:00011**
(Kluev, V. V.) *see* **Mathematics and simulation with biological, economical and musicoacoustical applications**, **2004h:00015** *and* **Topics in applied and theoretical mathematics and computer science**, **2004h:00019**
(Korvin, Gabor) *see* **Wavelet and fractal methods in science and engineering**
(Krebs, Hans-Joachim) *see* **Mathematics—key technology for the future**, **2004d:00011**
(Krömker, Susanne) *see* **Trends in nonlinear analysis**, **2004c:00011**
(Liu, Yan Pei) *see* **Discrete mathematics and theoretical computer science**
(Manton, Nicholas S.) *see* **Integrability, topological solitons and beyond**
(Mason, Lionel J.) *see* **Geometry and integrability**, **2004j:00007**
(Mastorakis, Nikos E.) *see* **Mathematics and simulation with biological, economical and musicoacoustical applications**, **2004h:00015**; **Problems in applied mathematics and computational intelligence**, **2004h:00017**; **Topics in applied and theoretical mathematics and computer science**, **2004h:00019** *and* **Recent advances in applied and theoretical mathematics**, **2004i:00008**
(Mazur, Barry C.) *see* **Current developments in mathematics**, **2004b:00008**
Mel'nikov, Yu. A. Preface [Modern applications of Green's functions in mechanics and related fields].
(van der Merwe, Alwyn) *see* **Quantum mechanics, mathematics, cognition and action**, **2004j:00009**
(Mohammed, Sabah M. A.) *see* **Special Issue: Applied computations**
(Monitjano, J. I.) *see* **Recent advances in computational and mathematical methods for science and engineering**
(Mosco, Umberto) *see* **Wavelet and fractal methods in science and engineering**
(Moser, Jürgen K.) *see* **Dedicated to the memory of Jürgen K. Moser**
(Mugur-Schächter, Mioara) *see* **Quantum mechanics, mathematics, cognition and action**, **2004j:00009**
(Musili, C.) *see* **Connected at infinity**, **2004f:00009**
(Negru, Viorel) *see* **Symbolic and numeric algorithms on scientific computing**
(Nutku, Yavuz) *see* **Geometry and integrability**, **2004j:00007**
(Ogden, Raymond W.) *see* **Advances in mechanics and mathematics**, **2004g:00014**
(Oyibo, Gabriel A.) *see* **Advances in mathematics research**, **2004h:00011**; **2004h:00012**; **2004h:00013** *and* **2004h:00014**
(Pavlovskiĭ, Yu. N.) *see* **Modeling, decomposition and optimization of complex dynamic processes**
(Pawelzik, Klaus) *see* **Complex adaptive systems**
(Popovici, Adriana) *see* **Symbolic and numeric algorithms on scientific computing**
(Pordavi, Omar) *see* **Recent research on pure and applied algebra**, **2004h:00018**
(Rannacher, Rolf) *see* **Trends in nonlinear analysis**, **2004c:00011**
(van Rooy, Robert) *see* **Special Issue: Connecting the different faces of information**
(Rozhkovskaya, Tamara) *see* **Proceedings: St. Petersburg Mathematical Society**, **2004f:00012**
(Rubinov, Aleksandr M.) *see* **Optimization and related topics**
(Saratchandran, P.) *see* **Advances in intelligent systems and applications**
Sarig, Omri *see* **Denker, Manfred**
(Scherzer, Otmar) *see* **Special section on imaging**
(Schmid, Wilfried) *see* **Current developments in mathematics**, **2004b:00008**
(Schrohe, Elmar) *see* **Nonlinear hyperbolic equations, spectral theory, and wavelet transformations**, **2004h:00016**
(Schulze, Bert-Wolfgang) *see* **Nonlinear hyperbolic equations, spectral theory, and wavelet transformations**, **2004h:00016**
(Schuster, Heinz Georg) *see* **Handbook: Graphs and networks**, **2004f:00010** *and* **Complex adaptive systems**
(Schwefel, Hans-Paul) *see* **Advances in computational intelligence**, **2004a:00018**
(Siddiqi, Abul Hasan) *see* **Wavelet and fractal methods in science and engineering**
(Singer, Isadore M.) *see* **Current developments in mathematics**, **2004b:00008**
(Sosinskiĭ, A. B.) *see* **MASS selecta**, **2004g:00015**
Stoljar, Daniel *see* **Davies, Martin**
(Stroock, Daniel W.) *see* **Current developments in mathematics**, **2004b:00008**
(Szczepaniak, Piotr) *see* **Dynamical systems/theory and applications**
(Tabachnikov, Serge) *see* **MASS selecta**, **2004g:00015**
(Takayama, Nobuki) *see* **Algebra, geometry, and software systems**, **2004e:00007**
(Tomi, Friedrich) *see* **Trends in nonlinear analysis**, **2004c:00011**
(Tse, Chi K.) *see* **Special Issue: Switching and systems**
(Ural'tseva, N. N.) *see* **Proceedings: St. Petersburg Mathematical Society**, **2004f:00012** *and* **Proceedings: St. Petersburg Mathematical Society. Vol. 9**, **2004k:00013**
(Van Praag, Paul) *see* **Aspects of duality in mathematics**, **2004d:00010**
(Varga, László) *see* **Hungarian applied mathematics and computer applications**
(Vigo-Aguiar, Jesús) *see* **Recent advances in computational and mathematical methods for science and engineering**
(Warnecke, Gerald G.) *see* **Entropy**, **2004j:00006**
(Wegener, Ingo) *see* **Advances in computational intelligence**, **2004a:00018**
(Weinert, Klaus) *see* **Advances in computational intelligence**, **2004a:00018**
(Williams, Kim) *see* **Nexus: architecture and mathematics**, **2004e:00009** *and* **Nexus II: architecture and mathematics**, **2004f:00011**
(Yau, Shing Tung) *see* **Current developments in mathematics**, **2004b:00008**
(Zaslavsky, George M.) *see* **Chaotic transport and complexity in classical and quantum dynamics**
(Zolotarev, V. M.) *see* **Hungarian applied mathematics and computer applications**

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Advances in computational intelligence ★ Advances in computational intelligence. **2004a:00018**
Advances in intelligent systems and applications ★ Advances in intelligent systems and applications.
Advances in mathematics research ★ Advances in mathematics research. Vol. 1. **2004h:00011**
— ★ Advances in mathematics research. Vol. 2. **2004h:00012**
— ★ Advances in mathematics research. Vol. 3. **2004h:00013**
— ★ Advances in mathematics research. Vol. 4. **2004h:00014**
Advances in mechanics and mathematics ★ Advances in mechanics and mathematics 2002. **2004g:00014**
Algebra, geometry, and software systems ★ Algebra, geometry, and software systems. **2004e:00007**
Alicante ★ Recent advances in computational and mathematical methods for science and engineering.
American Mathematical Society Translations, Series 2 ★ Asymptotic methods for wave and quantum problems. **2004c:00009**
— ★ Proceedings of the St. Petersburg Mathematical Society. Vol. IX. **2004f:00012**
Anniversary:
Founding of the Instituto Nacional de Matemática Pura e Aplicada (IMPA) ★ Dedicated to the 50th anniversary of IMPA.
Kazan' State University ★ На рубеже веков. (Russian) [At the turn of the 20th–21st centuries] **2004e:00008**
N. G. Chebotarev Research Institute of Mathematics and Mechanics, Kazan' State University ★ На рубеже веков. (Russian) [At the turn of the 20th–21st centuries] **2004e:00008**
Approximation algorithms ★ Approximation algorithms.
Artificial intelligence and mathematics ★ Artificial intelligence and mathematics. XIII.
Aspects de la dualité en mathématique ★ Aspects de la dualité en mathématique. (French) [Aspects of duality in mathematics] **2004d:00010**
Aspects of duality in mathematics ★ Aspects de la dualité en mathématique. (French) [Aspects of duality in mathematics] **2004d:00010**
Asymptotic methods for wave and quantum problems ★ Asymptotic methods for wave and quantum problems. **2004c:00009**
At the turn of the 20th–21st centuries ★ На рубеже веков. (Russian) [At the turn of the 20th–21st centuries] **2004e:00008**
Bioinformatics tools and applications ★ Bioinformatics tools and applications.
Cambridge, MA ★ Current developments in mathematics. 1999. **2004b:00008**
Chaotic transport and complexity in classical and quantum dynamics ★ Chaotic transport and complexity in classical and quantum dynamics.
Complex adaptive systems ★ Complex adaptive systems. Part II.
Conference:
Nexus '96: Relationships between Architecture and Mathematics ★ Nexus: architecture and mathematics. **2004e:00009**
Nexus '98: Relationships between Architecture and Mathematics ★ Nexus II: architecture and mathematics. **2004f:00011**
Connected at infinity ★ Connected at infinity. **2004f:00009**
Current developments in mathematics ★ Current developments in mathematics. 1999. **2004b:00008**

Dedicated to the memory of Jürgen K. Moser ★ Dedicated to the memory of Jürgen K. Moser.
Discrete mathematics and theoretical computer science ★ Discrete mathematics and theoretical computer science (DMTCS).
Dynamical systems/theory and applications ★ Dynamical systems/theory and applications.
Entropy ★ Entropy. **2004j:00006**
Festschrift:
Arató, Mátyás ★ Hungarian applied mathematics and computer applications.
Varga, László ★ Hungarian applied mathematics and computer applications.
Zolotarev, Vladimir Mikhaĭlovich ★ Hungarian applied mathematics and computer applications.
Fields Medallists' lectures ★ Fields Medallists' lectures. **2004k:00012**
Fifty years of the major in mathematics at the National University of Columbia ★ Dedicado a la celebración de los 50 años de la Carrera de Matemáticas de la Universidad Nacional de Colombia. (Spanish summary) [Fifty years of the major in mathematics at the National University of Columbia]
Foundations of mathematics and logic ★ The foundations of mathematics and logic.
Fucecchio ★ Nexus: architecture and mathematics. **2004e:00009**
Geometry and integrability ★ Geometry and integrability. **2004j:00007**
Handbook:
Graphs and networks ★ Handbook of graphs and networks. **2004f:00010**
Hungarian applied mathematics and computer applications ★ Hungarian applied mathematics and computer applications.
Information science and technology ★ Information science and technology.
Integrability, topological solitons and beyond ★ Integrability, topological solitons and beyond.
Lectures:
Fields Medallists' ★ Fields Medallists' lectures. **2004k:00012**
Łódź ★ Dynamical systems/theory and applications.
Mantua ★ Nexus II: architecture and mathematics. **2004f:00011**
MASS selecta ★ MASS selecta. **2004g:00015**
Mathematical structures and modeling ★ Математические структуры и моделирование. Вып. 10. (Russian) [Mathematical structures and modeling. No. 10] **2004b:00009**
— ★ Математические структуры и моделирование. Вып. 11. (Russian) [Mathematical structures and modeling. No. 11] **2004j:00008**
Mathematics and simulation with biological, economical and musicoacoustical applications ★ Mathematics and simulation with biological, economical and musicoacoustical applications. **2004h:00015**
Mathematics—key technology for the future ★ Mathematics—key technology for the future. **2004d:00011**
Memorial Issue:
Moser, Jürgen K. ★ Dedicated to the memory of Jürgen K. Moser.
Modeling, decomposition and optimization of complex dynamic processes ★ Моделирование, декомпозиция и оптимизация сложных динамических процессов. [Modeling, decomposition and optimization of complex dynamic processes]
Nexus II: architecture and mathematics ★ Nexus II: architecture and mathematics. **2004f:00011**
Nexus: architecture and mathematics ★ Nexus: architecture and mathematics. **2004e:00009**
Nonlinear hyperbolic equations, spectral theory, and wavelet transformations ★ Nonlinear hyperbolic equations, spectral theory, and wavelet transformations. **2004h:00016**
Operational research and decision support ★ Recherche opérationelle et aide à la décision. [Operational research and decision support]
Optimization and related topics ★ Optimization and related topics. 4.
Problems in applied mathematics and computational intelligence ★ Problems in applied mathematics and computational intelligence. **2004h:00017**
Proceedings:
St. Petersburg Mathematical Society ★ Proceedings of the St. Petersburg Mathematical Society. Vol. IX. **2004f:00012**
St. Petersburg Mathematical Society. Vol. 9 ★ Труды Санкт-Петербургского Математического Общества. Том 9. (Russian) [Proceedings of the St. Petersburg Mathematical Society. Vol. 9] **2004k:00013**
Quantum mechanics, mathematics, cognition and action ★ Quantum mechanics, mathematics, cognition and action. **2004j:00009**
Recent advances in applied and theoretical mathematics ★ Recent advances in applied and theoretical mathematics. **2004i:00008**
Recent advances in computational and mathematical methods for science and engineering ★ Recent advances in computational and mathematical methods for science and engineering.
Recent research on pure and applied algebra ★ Recent research on pure and applied algebra. **2004h:00018**
Recherche opérationnelle et aide à la décision ★ Recherche opérationelle et aide à la décision. [Operational research and decision support]
Reports:
Interdisciplinary Center for Scientific Computing (IZWR) ★ Berichte des IZWR. Band 1. [Reports of the IZWR. Vol. 1] **2004i:00009**
Saarbrücken ★ Approximation algorithms.
Seminar:
Spectral Theory and Geometry, Vol. 21, 2002/2003 ★ Séminaire de Théorie Spectrale et Géométrie. Vol. 21. Année 2002–2003. (French) [Seminar on Spectral Theory and Geometry. Vol. 21. Year 2002–2003] **2004k:00014**
Special Issue:
Applied computations ★ A special issue on applied computations.
Connecting the different faces of information ★ Special issue on connecting the different faces of information.
Dependable reasoning about uncertainty ★ Special issue on dependable reasoning about uncertainty.
Switching and systems ★ Special issue on switching and systems.
Special section on imaging ★ Special section on imaging.
Stochastic analysis with applications to mathematical finance ★ Stochastic analysis with applications to mathematical finance.
Studies in information science ★ Исследования по информатике. Вып. 4. (Russian) [Studies in information science. No. 4] **2004c:00010**
— ★ Исследования по информатике. Вып. 5. (Russian) [Studies in information science. No. 5] **2004j:00010**
Summer course 2003: Mathematics in daily life ★ Vakantiecursus 2003: Wiskunde in het dagelijks leven. (Dutch) [Summer course 2003: Mathematics in daily life] **2004i:00010**
Symbolic and numeric algorithms on scientific computing ★ Symbolic and numeric algorithms on scientific computing.
Timişoara ★ Symbolic and numeric algorithms on scientific computing.
Topics in applied and theoretical mathematics and computer science ★ Topics in applied and theoretical mathematics and computer science. **2004h:00019**
Trends in nonlinear analysis ★ Trends in nonlinear analysis. **2004c:00011**
Wavelet and fractal methods in science and engineering ★ Wavelet and fractal methods in science and engineering. Part I.
Wavelets and signal processing ★ Wavelets and signal processing. **2004c:00012**
Work and creative processes of the 2002 Franklin Institute laureates ★ The work and creative processes of the 2002 Franklin Institute laureates.

Items with secondary classifications in 00B15

(Blackledge, Jonathan M.) *see* **Fractal geometry: mathematical methods, algorithms, applications, 2004d:28001**
(Büttemeyer, Wilhelm) *see* **Philosophy of mathematics, 2004g:00007**
(Corinthios, Michael J.) *see* **Digital signal processing and control**
(Evans, A. K.) *see* **Fractal geometry: mathematical methods, algorithms, applications, 2004d:28001**
(Hazewinkel, Michiel) *see* **Handbook: Algebra, 2004h:00004**
(Maragos, Petros) *see* **Digital signal processing and control**
(Ruget, Claudine) *see* **Situational mathematics, 2004h:00009**
(Turner, Martin J.) *see* **Fractal geometry: mathematical methods, algorithms, applications, 2004d:28001**
(Tzafestas, Spyros) *see* **Digital signal processing and control**

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Digital signal processing and control ★ Digital signal processing and control.
Fractal geometry: mathematical methods, algorithms, applications ★ Fractal geometry: mathematical methods, algorithms, applications. **2004d:28001**
Handbook:
Algebra ★ Handbook of algebra. Vol. 3. **2004h:00004**
Leicester ★ Fractal geometry: mathematical methods, algorithms, applications. **2004d:28001**
Mathématiques en situation ★ Mathématiques en situation. (French) [Situational mathematics] **2004h:00009**
Philosophie der Mathematik ★ Philosophie der Mathematik. (German) [Philosophy of mathematics] **2004g:00007**
Philosophy of mathematics ★ Philosophie der Mathematik. (German) [Philosophy of mathematics] **2004g:00007**
Seminar:
"Qualitative Theory of Differential Equations and Control Theory"—50 years The Seminar "Qualitative Theory of Differential Equations and Control Theory"—50 years.
Situational mathematics ★ Mathématiques en situation. (French) [Situational mathematics] **2004h:00009**

00B25 Proceedings of conferences of miscellaneous specific interest

(Abłamowicz, Rafal) *see* **Clifford algebras, 2004i:00012**
(Abramyan, Andrei Karenovich) *see* **Patterns and waves, 2004e:00013**
(Acu, Dumitru) *see* **Proceedings: Conference of the Romanian Society of Mathematical Sciences, 2004g:00019** *and* **2004g:00020**
(Aizawa, Yoji) *see* **Let's face chaos through nonlinear dynamics**
(Ambrosio, Luigi) *see* **Lecture notes on analysis in metric spaces, 2004h:00022**
(de Andrade, Eliana X. L.) *see* **Congress: Applied and Computational Mathematics**
(Antonić, Nenad) *see* **Multiscale problems in science and technology, 2004c:00018**
(Antreich, Kurt) *see* **Modeling, simulation, and optimization of integrated circuits, 2004h:00023**
(Auscher, Pascal) *see* **Heat kernels and analysis on manifolds, graphs, and metric spaces, 2004k:00018**
Axelsson, Owe Editorial [PMOCCO 2002].
(Baker, B. Mitchell) *see* **Advances in quantum dynamics, 2004i:00011**
(Balthazar, José Manoel) *see* **Congress: Applied and Computational Mathematics**
(Bandrauk, André D.) *see* **Quantum control: mathematical and numerical challenges, 2004j:00023**
(Barcelo, Hélène) *see* **Formal power series and algebraic combinatorics**
(Bartušek, Miroslav) *see* **Colloquium: Differential and Difference Equations, 2004h:00020**
(Bar-Yam, Yaneer) *see* **Unifying themes in complex systems, 2004i:00015** *and* **2004j:00027**
(Bedanokov, M. K.) *see* **Proceedings: Conference of Undergraduate and Graduate Students and of Young Scientists "Science for the 21st Century", 2004j:00021**
(Begehr, Heinrich G. W.) *see* **Analysis and applications—ISAAC 2001, 2004g:00016** *and* **Progress in analysis, 2004i:00014**
(Benslimane, Mohamed) *see* **Proceedings: Conference on Algebras and their Applications, 2004i:00013**
(Benvenuti, Luca) *see* **Positive systems, 2004g:00018**
(Ben Yakoub, L.) *see* **Proceedings: Conference on Algebras and their Applications, 2004i:00013**
(Bereis, Rudolf) *see* **Proceedings: Symposium on Geometry, Dresden, 2004k:00020**
de Berg, Mark Guest editor's foreword [Selected papers from the 19th ACM Symposium on Computational Geometry].
(Berman, Stephen) *see* **Vertex operator algebras in mathematics and physics, 2004g:00021**
(Bhattacharjee, Jayanta Kumar) *see* **Statphys—Kolkata**

(Biedl, Therese C.) *see* Conference: Computational Geometry
(Billig, Yu. V.) *see* Vertex operator algebras in mathematics and physics, 2004g:00021
(Bogomolov, Fedor) *see* Motives, polylogarithms and Hodge theory, 2004a:00019 *and* 2004a:00020
(Bollobás, Béla) *see* Combinatorics, probability and computing
(Bonan-Hamada, Cathy) *see* 2001: a mathematics odyssey
(Bonilla, Luis L.) *see* Coherent structures in complex systems, 2004c:00016
(Booß-Bavnbek, Bernhelm) *see* Mathematics and war, 2004j:00019
(Boudi, Nadia) *see* Proceedings: Conference on Algebras and their Applications, 2004i:00013
(Brézis, Haïm) *see* Topological methods, variational methods and their applications, 2004d:00023 *and* Morse theory, minimax theory and their applications to nonlinear differential equations, 2004k:00019
(Bucur, Amelia) *see* Proceedings: Conference of the Romanian Society of Mathematical Sciences, 2004g:00019 *and* 2004g:00020
(Bulirsch, Roland) *see* Modeling, simulation, and optimization of integrated circuits, 2004h:00023
(Burda, Zdzisław) *see* Workshop: Random Geometry
(Caccioppoli, Renato) *see* Renato Caccioppoli and modern analysis
Čadek, Martin *see* Slovák, Jan
(Carbone, Luciano) *see* Homogenization, 2004f:00015
(Cates, M. E.) *see* Slow dynamics in soft matter
(Chang, Kung-ching) *see* Topological methods, variational methods and their applications, 2004d:00023
(Cheng, Yi[1]) *see* Nonlinear evolution equations and dynamical systems, 2004j:00020
(Ching, Wai-Ki) *see* OR and models
(Cho, Yeol Je) *see* Inequality theory and applications, 2004j:00017
(Chu, Sydney C. K.) *see* OR and models
(Combes, Jean-Michel) *see* Operator algebras and mathematical physics, 2004f:00018
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Bielsko-Biała ★ Proceedings of Conference on Complex Analysis.
Bioconsensus ★ Bioconsensus. **2004b:00011**
Birmingham, AL ★ Advances in differential equations and mathematical physics. **2004c:00013**
— ★ Recent developments in integrable systems and Riemann-Hilbert problems. **2004d:00022**
Borşa ★ Proceedings of the 3rd International Conference on Applied Mathematics.
Brasília ★ XVI Escola de Álgebra. Part II. [16th School of Algebra. Part II]
Brno ★ Colloquium on Differential and Difference Equations: CDDE 2002. **2004h:00020**
Burg ★ Quantum probability and infinite dimensional analysis. **2004e:00014**
Cairns ★ {Selected papers from the 2nd WSEAS Multiconference and the 3rd WSEAS Symposium}.
Cairo ★ Proceedings of the Conference on "Geometry and its Applications".
Cambridge ★ An introduction to the geometry and topology of fluid flows. **2004c:00017**
Challenges in computational mathematics ★ Challenges in computational mathematics.
Chinju ★ Inequality theory and applications. Vol. 2. **2004j:00017**
Clifford algebras ★ Clifford algebras. **2004i:00012**
Coherent structures in complex systems ★ Coherent structures in complex systems. **2004c:00016**
Colloquium:
Differential and Difference Equations ★ Colloquium on Differential and Difference Equations: CDDE 2002. **2004h:00020**
Colonia del Sacramento ★ Nonequilibrium statistical mechanics and nonlinear physics (MEDYFINOL '02).
Combinatorial representation theory and related topics ★ Kumiawaseronteki hyōgenron to sono shūhen. (Japanese) [Combinatorial representation theory and related topics]
Combinatorics, probability and computing ★ Combinatorics, probability and computing.
Computational geometry ★ Computational geometry. **2004d:00013**
Computational science ★ Computational science—ICCS 2002. Part I. **2004j:00012**
— ★ Computational science—ICCS 2002. Part II. **2004j:00013**
— ★ Computational science—ICCS 2002. Part III. **2004j:00014**
Computer algebra and computer analysis ★ Computer algebra and computer analysis.
Computer mathematics ★ Computer mathematics. **2004m:00010**
Computing anticipatory systems ★ Computing anticipatory systems. **2004d:00014**
Conference:
Applied and Theoretical Mathematics ★ {Selected papers from the 2nd WSEAS Multiconference and the 3rd WSEAS Symposium}.
Applied Mathematics and Statistics ★ VII Jornadas Zaragoza-Pau de Matemática Aplicada y Estadística. [Seventh Zaragoza-Pau Conference on Applied Mathematics and Statistics] **2004h:00021**
Clifford Algebras and their Applications in Mathematical Physics ★ Clifford algebras. **2004i:00012**
Combinatorial Matrix Theory ★ Special issue on the Combinatorial Matrix Theory Conference.
Complex Systems ★ Unifying themes in complex systems. Vol. I. **2004i:00015**
— ★ Unifying themes in complex systems. Vol. II. **2004j:00027**
Computational Geometry ★ Thirteenth Canadian Conference on Computational Geometry—CCCG'01.
Differential Equations and Mathematical Physics ★ Advances in differential equations and mathematical physics. **2004c:00013**
Discrete Analysis and Operations Research ★ Международная Конференция DAOR'2002. [International Conference DAOR'2002]
— ★ Международная Конференция DAOR'2002. [International Conference DAOR'2002]
Harmonic Analysis and Related Topics ★ International Conference on Harmonic Analysis and Related Topics. **2004d:00015**
International Society for the History of Philosophy of Science ★ Special issue: History of science and philosophy of science.
Mathematical Modelling and Computational Methods in Mechanics, Physics, Biomechanics and Geodynamics ★ MODELLING 2001.
Mathematics and Computer Science ★ Algebraic systems.
Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory ★ Nonlinear waves: computation and theory. II.
Nonlinear Functional Analysis ★ Topological methods, variational methods and their applications. **2004d:00023**
Nonlinear Functional Analysis and Applications ★ Inequality theory and applications. Vol. 2. **2004j:00017**
Patterns and Waves: Theory and Applications ★ Patterns and waves. **2004e:00013**
Statistical Mechanics ★ Coherent structures in complex systems. **2004c:00016**
Statistical Physics ★ Statphys—Kolkata IV.
Union of Bulgarian Mathematicians ★ Математика и математическо образование. [Mathematics and education in mathematics] **2004d:00017**
Young Mathematicians, Applied Mathematics ★ II Konferencja dla Młodych Matematyków Zastowania Matematyki. [II Conference of Young Mathematicians on Applied Mathematics]
Congress:
Applied and Computational Mathematics ★ Selecta of the XXII National Congress of Applied and Computational Mathematics. (Portuguese)
— ★ Selecta of the XXII National Congress of Applied and Computational Mathematics. (Portuguese)
— ★ Seleta do XXIII Congresso Nacional de Matemática Aplicada e Computacional. (Portuguese) [Selecta of the XXIII National Congress of Applied and Computational Mathematics]
— ★ Seleta do XXIV Congresso Nacional de Matemática Aplicada e Computacional. Parte 1. (Portuguese) [Selecta of the XXIV National Congress of Applied and Computational Mathematics. Part 1]
— ★ Seleta do XXIV Congresso Nacional de Matemática Aplicada e Computacional. Parte 2. (Portuguese) [Selecta of the XXIV National Congress of Applied and Computational Mathematics. Part 2]
— ★ Seleta do XXV Congresso Nacional de Matemática Aplicada e Computacional. Parte 1. (Portuguese) [Selecta of the XXV National Congress of Applied and Computational Mathematics. Part 1]
— ★ Seleta do XXV Congresso Nacional de Matemática Aplicada e Computacional. Parte 2. (Portuguese) [Selecta of the XXV National Congress of Applied and Computational Mathematics. Part 2]
International Society for Analysis, its Applications and Computation ★ Analysis and applications—ISAAC 2001. **2004g:00016**
International Society for Analysis, its Applications and Computation (ISAAC) ★ Progress in analysis. Vol. I, II. **2004i:00014**
— ★ Computer algebra and computer analysis.
Mathematical Physics ★ Highlights of mathematical physics. **2004d:00016**
Mathematicians and Computer Scientists of Macedonia ★ Втор Конгрес на

Congress: (*cont'd.*)
Математичарите и Информатичарите на Македонија. [2nd Congress of the Mathematicians and Computer Scientists of Macedonia] **2004b:00012**
Mexican Mathematical Society, 35th National ★ XXXV Congreso Nacional de la Sociedad Matemática Mexicana. [XXXV National Congress of the Mexican Mathematical Society] **2004k:00016**
South African Mathematical Society ★ Invited papers from the 45th Annual SAMS Congress.
Constanţa ★ Operator algebras and mathematical physics. **2004f:00018**
Contemporary Mathematics ★ Advances in differential equations and mathematical physics. **2004c:00013**
— ★ Recent developments in integrable systems and Riemann-Hilbert problems. **2004d:00022**
— ★ Advances in quantum dynamics. **2004i:00011**
— ★ Topics in algebraic geometry and geometric modeling. **2004j:00026**
— ★ Waves in periodic and random media. **2004j:00029**
— ★ Heat kernels and analysis on manifolds, graphs, and metric spaces. **2004k:00018**
Cookeville, TN ★ Clifford algebras. **2004i:00012**
Copenhagen ★ ISMP 2003.
Dalian ★ Proceedings of the International Symposium on Computational Mathematics and Applications.
Dedicated to the 75th birthday of Aleksandr Vasil'evich Malyshev ★ {75-летию со дня рождения Александра Васильевича Малышева посвящается}. (Russian) [Dedicated to the 75th birthday of Aleksandr Vasil'evich Malyshev]
Denton, TX ★ Towards a new vision of complexity.
Discrete models for complex systems ★ Discrete models for complex systems, DMCS'03. **2004e:00010**
Dresden ★ Dresden Symposium Geometry—Proceedings. **2004k:00020**
Dubrovnik ★ Applied mathematics and computation. **2004c:00014**
— ★ Multiscale problems in science and technology. **2004c:00018**
Durango ★ XXXV Congreso Nacional de la Sociedad Matemática Mexicana. [XXXV National Congress of the Mexican Mathematical Society] **2004k:00016**
Durham, NC ★ Nonlinear differential equations, mechanics and bifurcation.
Dynamical systems and differential equations ★ Dynamical systems and differential equations.
— ★ Dynamical systems and differential equations.
Engineering applications and computational algorithms ★ Engineering applications and computational algorithms.
European women in mathematics ★ European women in mathematics. **2004f:00013**
Factorization and integrable systems ★ Factorization and integrable systems. **2004f:00014**
Faro ★ Factorization and integrable systems. **2004f:00014**
Felix-Oradea ★ Algebraic systems.
Festschrift:
Jones, William Branham ★ 2001: a mathematics odyssey.
McIntosh, Alan G. R. ★ International Conference on Harmonic Analysis and Related Topics. **2004d:00015**
Siciak, Józef ★ Proceedings of Conference on Complex Analysis.
Stanley, H. Eugene ★ Statphys—Kolkata IV.
Finite or infinite dimensional complex analysis and applications ★ Finite or infinite dimensional complex analysis and applications. **2004k:00017**
Forges-les-Eaux ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **2004j:00022**
Formal power series and algebraic combinatorics ★ {Formal power series and algebraic combinatorics}.
Functional differential equations and applications ★ {Functional differential equations and applications}.
— ★ {Functional differential equations and applications}.
Functional equations in mathematical models ★ Kansū hōteishiki to sūri moderu. (Japanese) [Functional equations in mathematical models]
Geneva ★ One hundred years of L'Enseignement Mathématique. **2004f:00017**
Grand Junction, CO ★ 2001: a mathematics odyssey.
Guelph, ON ★ Engineering applications and computational algorithms.
Hagenberg ★ Symbolic and numerical scientific computation. **2004j:00025**
Hanoi ★ Finite or infinite dimensional complex analysis and applications. **2004k:00017**
Heat kernels and analysis on manifolds, graphs, and metric spaces ★ Heat kernels and analysis on manifolds, graphs, and metric spaces. **2004k:00018**
High-dimensional manifold topology ★ High-dimensional manifold topology. **2004j:00015**
Highlights of mathematical physics ★ Highlights of mathematical physics. **2004d:00016**
Homogenization ★ Homogenization 2001. **2004f:00015**
Hong Kong ★ {OR and models}.
Hyderabad ★ Advances in algebra and geometry. **2004b:00010**
Hyperbolic problems: theory, numerics, applications ★ Hyperbolic problems: theory, numerics, applications. **2004j:00016**
Inequality theory and applications ★ Inequality theory and applications. Vol. 2. **2004j:00017**
Introduction to the geometry and topology of fluid flows ★ An introduction to the geometry and topology of fluid flows. **2004c:00017**
Invited papers from the 45th Annual SAMS Congress ★ Invited papers from the 45th Annual SAMS Congress.
Irvine, CA ★ Motives, polylogarithms and Hodge theory. Part I. **2004a:00019**
— ★ Motives, polylogarithms and Hodge theory. Part II. **2004a:00020**
ISMP ★ ISMP 2003.
Jaca ★ VII Jornadas Zaragoza-Pau de Matemática Aplicada y Estadística. [Seventh Zaragoza-Pau Conference on Applied Mathematics and Statistics] **2004h:00021**
Kananaskis, AB ★ Scientific computing and applications. **2004h:00025**
Karlskrona ★ Mathematics and war. **2004j:00019**
Kénitra *see* **Faraut, Jacques et al., 2004j:00011**
Kennesaw, GA ★ Dynamical systems and differential equations.
Kolkata ★ Statphys—Kolkata IV.
Kraków ★ Workshop on Random Geometry.
Lądek Zdrój ★ II Konferencja dla Młodych Matematyków Zastowania Matematyki. [II Conference of Young Mathematicians on Applied Mathematics]
Lecture Notes in Computer Science ★ Computational science—ICCS 2002. Part I. **2004j:00012**
— ★ Computational science—ICCS 2002. Part II. **2004j:00013**
— ★ Computational science—ICCS 2002. Part III. **2004j:00014**
— ★ Symbolic and numerical scientific computation. **2004j:00025**
Lecture Notes in Control and Information Sciences ★ Positive systems. **2004g:00018**
Lecture Notes in Mathematics ★ Asymptotic combinatorics with applications to mathematical physics. **2004g:00017**
Lecture Notes in Physics ★ Coherent structures in complex systems. **2004c:00016**
Lecture notes on analysis in metric spaces ★ Lectures notes on analysis in metric spaces. **2004h:00022**
Lectures:
Nonlinear Analysis ★ Turin Fortnight Lectures on Nonlinear Analysis.
Let's face chaos through nonlinear dynamics ★ Let's face chaos through nonlinear dynamics.
Leuven ★ Proceedings of the 10th International Congress on Computational and Applied Mathematics (ICCAM-2002).
Liège ★ Computing anticipatory systems. **2004d:00014**
Lille ★ International Symposium on Symbolic and Algebraic Computation (ISSAC'2002).
London ★ Highlights of mathematical physics. **2004d:00016**
— ★ Slow dynamics in soft matter.
Lyon ★ Discrete models for complex systems, DMCS'03. **2004e:00010**
Maĭkop ★ Доклады Четвертой Всероссийской Научно-Практической Конференции Студентов, Аспирантов, Докторантов и Молодых Ученых "Наука–XXI Веку". (Russian) [Proceedings of the Fourth All-Russian Scientific-Engineering Conference of Undergraduate and Graduate Students and of Young Scientists "Science for the 21st Century"] **2004j:00021**
Malaga ★ Seminar of Mathematical Analysis. **2004j:00024**
Malta ★ European women in mathematics. **2004f:00013**
Maribor ★ Let's face chaos through nonlinear dynamics.
Masan ★ Inequality theory and applications. Vol. 2. **2004j:00017**
Mathematical methods in computer science and the information society ★ {Mathematical methods in computer science and the information society}.
Mathematical systems theory in biology, communications, computation, and finance ★ Mathematical systems theory in biology, communications, computation, and finance. **2004j:00018**
Mathematics and culture ★ Matematica e cultura 2000. (Italian) [Mathematics and culture 2000] **2004e:00011**
— ★ Matematica e cultura 2001. (Italian) [Mathematics and culture 2001] **2004e:00012**
— ★ Matematica e cultura 2002. (Italian) [Mathematics and culture 2002] **2004f:00016**
Mathematics and education in mathematics ★ Математика и математическо образование. [Mathematics and education in mathematics] **2004d:00017**
Mathematics and war ★ Mathematics and war. **2004j:00019**
Mathematics, art, technology, cinema ★ Matematica, arte, tecnologia, cinema. (Italian) [Mathematics, art, technology, cinema] **2004d:00018**
Medford, MA ★ ACM Symposium on Computational Geometry.
Meeting:
APS Division of Plasma Physics ★ Review, tutorial, and invited papers from the 44th Annual Meeting of the APS Division of Plasma Physics.
Melfi ★ Advanced special functions and related topics in differential equations.
Memorial Issue:
Lazutkin, Vladimir Fedorovich ★ Workshop on Differential Equations.
Simion, Rodica E. ★ {Formal power series and algebraic combinatorics}.
Milwaukee, WI ★ PSA 2002. Part I.
Modeling, simulation, and optimization of integrated circuits ★ Modeling, simulation, and optimization of integrated circuits. **2004h:00023**
MODELLING 2001 ★ MODELLING 2001.
Montréal, QC ★ Quantum control: mathematical and numerical challenges. **2004j:00023**
— ★ Special issue: History of science and philosophy of science.
Morse theory, minimax theory and their applications to nonlinear differential equations ★ Morse theory, minimax theory and their applications to nonlinear differential equations. **2004k:00019**
Motives, polylogarithms and Hodge theory ★ Motives, polylogarithms and Hodge theory. Part I. **2004a:00019**
— ★ Motives, polylogarithms and Hodge theory. Part II. **2004a:00020**
Multiscale problems in science and technology ★ Multiscale problems in science and technology. **2004c:00018**
Naples ★ Homogenization 2001. **2004f:00015**
Nashua, NH ★ Unifying themes in complex systems. Vol. I. **2004i:00015**
— ★ Unifying themes in complex systems. Vol. II. **2004j:00027**
NATO Advanced Study Institute:
Workshop on Geometry and Topology of Fluid Flows ★ An introduction to the geometry and topology of fluid flows. **2004c:00017**
New developments in the research of integrable systems that are continuous, discrete and ultradiscrete ★ Kasekibun kei kenkyū no shin tenkai—renzoku · risan · chōrisan. (Japanese) [New developments in the research of integrable systems that are continuous, discrete and ultradiscrete]
Niš ★ Nonlinear mechanics, nonlinear sciences and applications. I.
Niška Banja ★ Proceedings of the 5th International Symposium on Mathematical Analysis and its Applications.
Noncommutative geometry and string theory ★ Noncommutative geometry and string theory. **2004h:00024**
Nonequilibrium statistical mechanics and nonlinear physics ★ Nonequilibrium statistical mechanics and nonlinear physics (MEDYFINOL '02).
Nonlinear differential equations, mechanics and bifurcation ★ Nonlinear differential equations, mechanics and bifurcation.
Nonlinear evolution equations and dynamical systems ★ Nonlinear evolution equations and dynamical systems. **2004j:00020**

Nonlinear mechanics, nonlinear sciences and applications ★ Nonlinear mechanics, nonlinear sciences and applications. I.
— ★ Nonlinear mechanics, nonlinear sciences and applications II.
Nonlinear waves: computation and theory ★ Nonlinear waves: computation and theory. II.
Notre Dame, IN ★ Mathematical systems theory in biology, communications, computation, and finance. **2004j:00018**
Nova Friburgo ★ Seleta do XXV Congresso Nacional de Matemática Aplicada e Computacional. Parte 1. (Portuguese) [Selecta of the XXV National Congress of Applied and Computational Mathematics. Part 1]
— ★ Seleta do XXV Congresso Nacional de Matemática Aplicada e Computacional. Parte 2. (Portuguese) [Selecta of the XXV National Congress of Applied and Computational Mathematics. Part 2]
Novel approaches to hard discrete optimization ★ Novel approaches to hard discrete optimization. **2004a:00021**
Novosibirsk ★ Международная Конференция DAOR'2002. [International Conference DAOR'2002]
— ★ Международная Конференция DAOR'2002. [International Conference DAOR'2002]
Oberwolfach ★ Modeling, simulation, and optimization of integrated circuits. **2004h:00023**
— ★ Combinatorics, probability and computing.
Ohrid ★ Втор Конгрес на Математичарите и Информатичарите на Македонија. [2nd Congress of the Mathematicians and Computer Scientists of Macedonia] **2004b:00012**
One hundred years of L'Enseignement Mathématique ★ One hundred years of L'Enseignement Mathématique. **2004f:00017**
Operator algebras and mathematical physics ★ Operator algebras and mathematical physics. **2004f:00018**
Oporto ★ Proceedings of the Tenth Oporto Meeting on Geometry, Topology and Physics.
OR and models ★ {OR and models}.
Ordinal and symbolic data analysis ★ Ordinal and symbolic data analysis. **2004d:00019**
Orlando, FL ★ Review, tutorial, and invited papers from the 44th Annual Meeting of the APS Division of Plasma Physics.
Paris ★ Heat kernels and analysis on manifolds, graphs, and metric spaces. **2004k:00018**
Pasadena, CA ★ Hyperbolic problems: theory, numerics, applications. **2004j:00016**
Patterns and waves ★ Patterns and waves. **2004e:00013**
Pilsen ★ MODELLING 2001.
Piscataway, NJ ★ Bioconsensus. **2004b:00011**
Pohang ★ Challenges in computational mathematics.
— ★ Special issue on the Combinatorial Matrix Theory Conference.
Porto Ercole ★ Summer School on "Methods and Models of Kinetic Theory" (M&MKT 2002).
Positive systems ★ Positive systems. **2004g:00018**
Proceedings:
Algebra Days ★ Proceedings of the All Ireland Algebra Days 2001.
Algebra Seminar ★ Proceeding of the 13th Algebra Seminar. **2004f:00019**
Conference of the International Association for Relativistic Dynamics ★ Proceedings, Part 1, IARD 2002.
— ★ Proceedings, Part 2, IARD 2002.
Conference of the Romanian Society of Mathematical Sciences ★ Lucrările celei de a VI-a Conferinţe Anuale a Societăţii de Ştiinţe Matematice din România. Vol. II. (Romanian) [Proceedings of the VI Annual Conference of the Romanian Society of Mathematical Sciences. Vol. II] **2004g:00019**
— ★ Lucrările celei de a VI-a Conferinţe Anuale a Societăţii de Ştiinţe Matematice din România. Vol. I. (Romanian) [Proceedings of the VI Annual Conference of the Romanian Society of Mathematical Sciences. Vol. I] **2004g:00020**
Conference of Undergraduate and Graduate Students and of Young Scientists "Science for the 21st Century" ★ Доклады Четвертой Всероссийской Научно-Практической Конференции Студентов, Аспирантов, Докторантов и Молодых Ученых "Наука–XXI Веку". (Russian) [Proceedings of the Fourth All-Russian Scientific-Engineering Conference of Undergraduate and Graduate Students and of Young Scientists "Science for the 21st Century"] **2004j:00021**
Conference on Algebra and its Applications ★ Proceedings of the International Conference on Algebra and its Applications (ICAA 2002). **2004d:00020**
Conference on Algebra, International ★ Proceedings of the International Conference on Algebra.
Conference on Algebraic Geometry and Singularities ★ Actas de la Conferencia Internacional de Geometría Algebraica y Singularidades. [Proceedings of the International Conference on Algebraic Geometry and Singularities]
Conference on Algebras and their Applications ★ Comptes rendus de la première rencontre maroco-andalouse sur les algèbres et leurs applications. (French) [Proceedings of the First Morocco-Andalusian Conference on Algebras and their Applications] **2004i:00013**
Conference on Applied Mathematics ★ Proceedings of the 3rd International Conference on Applied Mathematics.
Conference on Complex Analysis ★ Proceedings of Conference on Complex Analysis.
Conference on Linear Algebra and Arithmetic ★ Proceedings of the International Conference on Linear Algebra and Arithmetic.
Conference on Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **2004j:00022**
Conference on Theory and Applications of Mathematics and Informatics, International, ICTAMI 2003, Part A ★ Proceedings of the International Conference on Theory and Applications of Mathematics and Informatics (ICTAMI 2003). Part A.
Conference on "Geometry and its Applications" ★ Proceedings of the Conference on "Geometry and its Applications".
Conference "Algebra and Number Theory: Modern Problems and Applications" ★ Труды V Международной Конференции "Алгебра и Теория Чисел: Современные Проблемы и Приложения". (Russian) [Proceedings of the V International Conference "Algebra and Number Theory: Modern Problems and Applications"]
Congress of Mathematicians ★ Proceedings of the International Congress of Mathematicians. Vol. I. **2004b:00013**
Proceedings: (*cont'd.*)
Congress on Computational and Applied Mathematics, 10th International, ICCAM-2002 ★ Proceedings of the 10th International Congress on Computational and Applied Mathematics (ICCAM-2002).
International Session of the Algebraic Seminar dedicated to the 70th Anniversary of the Algebraic Seminars of Moscow State University ★ Труды Международного Расширенного Заседания Алгебраического Семинара, посвящённого 70-летию Алгебраического Семинара МГУ. (Russian) [Proceedings of the International Session of the Algebraic Seminar dedicated to the 70th Anniversary of the Algebraic Seminars of Moscow State University]
Meeting on Geometry, Topology and Physics ★ Proceedings of the Tenth Oporto Meeting on Geometry, Topology and Physics.
Symposium of Mathematics and its Applications ★ Proceedings of the Seventh Symposium of Mathematics and its Applications.
Symposium on Algebra, Languages and Computation ★ Proceedings of the Sixth Symposium on Algebra, Languages and Computation. **2004d:00021**
Symposium on Computational Mathematics and Applications ★ Proceedings of the International Symposium on Computational Mathematics and Applications.
Symposium on Geometry, Dresden ★ Dresden Symposium Geometry—Proceedings. **2004k:00020**
Symposium on Mathematical Analysis and its Applications ★ Proceedings of the 5th International Symposium on Mathematical Analysis and its Applications.
Symposium on Mathematical Physics ★ Proceedings of the XXXIV Symposium on Mathematical Physics.
Workshop on Quantum Probability and Quantum Information, 2nd Sendai ★ The Proceedings of the Second Sendai Workshop on Quantum Probability and Quantum Information.
Progress in analysis ★ Progress in analysis. Vol. I, II. **2004i:00014**
PSA 2002. Part I ★ PSA 2002. Part I.
Quantum control: mathematical and numerical challenges ★ Quantum control: mathematical and numerical challenges. **2004j:00023**
Quantum probability and infinite dimensional analysis ★ Quantum probability and infinite dimensional analysis. **2004e:00014**
Rabat ★ Proceedings of the International Conference on Linear Algebra and Arithmetic.
Random matrix theory ★ Random matrix theory.
Recent developments in integrable systems and Riemann-Hilbert problems ★ Recent developments in integrable systems and Riemann-Hilbert problems. **2004d:00022**
Renato Caccioppoli and modern analysis ★ Renato Caccioppoli and modern analysis.
Representations of finite dimensional algebras and related topics in Lie theory and geometry ★ Representations of finite dimensional algebras and related topics in Lie theory and geometry. **2004k:00021**
Rome ★ Positive systems. **2004g:00018**
— ★ Renato Caccioppoli and modern analysis.
Rosario ★ 60° aniversario del Instituto de Matemática "Beppo Levi". (Spanish) [60th anniversary of the Instituto de Matemática "Beppo Levi"] **2004d:00012**
Saint Petersburg ★ Patterns and waves. **2004e:00013**
— ★ Workshop on Differential Equations.
San Francisco, CA ★ SODA 2000 special issue.
Santos ★ Seleta do XXIII Congresso Nacional de Matemática Aplicada e Computacional. (Portuguese) [Selecta of the XXIII National Congress of Applied and Computational Mathematics]
São Paulo ★ Selecta of the XXII National Congress of Applied and Computational Mathematics. (Portuguese)
— ★ Selecta of the XXII National Congress of Applied and Computational Mathematics. (Portuguese)
School-Conference:
Homogenization and Multiple Scales ★ Homogenization 2001. **2004f:00015**
School:
Advanced Topics in Mathematics and Physics ★ Advanced special functions and related topics in differential equations.
Algebra ★ XVI Escola de Álgebra. Part II. [16th School of Algebra. Part II]
Methods and Models of Kinetic Theory, Summer, M&MKT 2002 ★ Summer School on "Methods and Models of Kinetic Theory" (M&MKT 2002).
Scientific computing and applications ★ Scientific computing and applications. **2004h:00025**
Scottsdale, AZ ★ {Formal power series and algebraic combinatorics}.
Seminar:
Mathematical Analysis ★ Seminar of Mathematical Analysis. **2004j:00024**
Sendai ★ The Proceedings of the Second Sendai Workshop on Quantum Probability and Quantum Information.
Session:
Integrable Systems and Riemann-Hilbert Problems ★ Recent developments in integrable systems and Riemann-Hilbert problems. **2004d:00022**
Sevilla ★ Actas de la Conferencia Internacional de Geometría Algebraica y Singularidades. [Proceedings of the International Conference on Algebraic Geometry and Singularities]
Seville ★ Seminar of Mathematical Analysis. **2004j:00024**
Sibiu ★ Lucrările celei de a VI-a Conferinţe Anuale a Societăţii de Ştiinţe Matematice din România. Vol. II. (Romanian) [Proceedings of the VI Annual Conference of the Romanian Society of Mathematical Sciences. Vol. II] **2004g:00019**
— ★ Lucrările celei de a VI-a Conferinţe Anuale a Societăţii de Ştiinţe Matematice din România. Vol. I. (Romanian) [Proceedings of the VI Annual Conference of the Romanian Society of Mathematical Sciences. Vol. I] **2004g:00020**
Sitges ★ Coherent structures in complex systems. **2004c:00016**
Slow dynamics in soft matter ★ Slow dynamics in soft matter.
South Hadley, MA ★ Advances in quantum dynamics. **2004i:00011**
— ★ Waves in periodic and random media. **2004j:00029**
Special Issue:
History of science and philosophy of science ★ Special issue: History of science and philosophy of science.
SODA 2000 ★ SODA 2000 special issue.
St. Petersburg ★ Asymptotic combinatorics with application to mathematical physics.

2004c:00015
— ★ Asymptotic combinatorics with applications to mathematical physics. **2004g:00017**
Statphys—Kolkata ★ Statphys—Kolkata IV.
Stellenbosch ★ Invited papers from the 45th Annual SAMS Congress.
Sunny Beach ★ Математика и математическо образование. [Mathematics and education in mathematics] **2004d:00017**
Suzhou ★ Proceedings of the International Conference on Algebra.
Sydney ★ International Conference on Harmonic Analysis and Related Topics. **2004d:00015**
Symbolic and numerical scientific computation ★ Symbolic and numerical scientific computation. **2004j:00025**
Symposium:
Mathematical Methods and Computational Techniques in Electrical Engineering ★ {Selected papers from the 2nd WSEAS Multiconference and the 3rd WSEAS Symposium}.
Mathematical Programming ★ ISMP 2003.
Mathematical Theory of Networks and Systems ★ Mathematical systems theory in biology, communications, computation, and finance. **2004j:00018**
Positive Systems: Theory and Applications ★ Positive systems. **2004g:00018**
Symbolic and Algebraic Computation ★ International Symposium on Symbolic and Algebraic Computation (ISSAC'2002).
Taiyuan ★ Topological methods, variational methods and their applications. **2004d:00023**
Tétouan ★ Comptes rendus de la première rencontre maroco-andalouse sur les algèbres et leurs applications. (French) [Proceedings of the First Morocco-Andalusian Conference on Algebras and their Applications] **2004i:00013**
Tilings of the plane ★ Tilings of the plane.
Timişoara ★ Proceedings of the Seventh Symposium of Mathematics and its Applications.
Topics in algebraic geometry and geometric modeling ★ Topics in algebraic geometry and geometric modeling. **2004j:00026**
Topological methods, variational methods and their applications ★ Topological methods, variational methods and their applications. **2004d:00023**
Toronto, ON ★ Vertex operator algebras in mathematics and physics. **2004g:00021**
— ★ Representations of finite dimensional algebras and related topics in Lie theory and geometry. **2004k:00021**
Toruń ★ Proceedings of the XXXIV Symposium on Mathematical Physics.
Towards a new vision of complexity ★ Towards a new vision of complexity.
Trento ★ Lectures notes on analysis in metric spaces. **2004h:00022**
Trieste ★ High-dimensional manifold topology. **2004j:00015**
Tula ★ Труды V Международной Конференции "Алгебра и Теория Чисел: Современные Проблемы и Приложения". (Russian) [Proceedings of the V International Conference "Algebra and Number Theory: Modern Problems and Applications"]
— ★ {75-летию со дня рождения Александра Васильевича Малышева посвящается}. (Russian) [Dedicated to the 75th birthday of Aleksandr Vasil′evich Malyshev]
Turin ★ Turin Fortnight Lectures on Nonlinear Analysis.
Unifying themes in complex systems ★ Unifying themes in complex systems. Vol. I. **2004i:00015**
— ★ Unifying themes in complex systems. Vol. II. **2004j:00027**
Urmia ★ Proceeding of the 13th Algebra Seminar. **2004f:00019**
Variational problems and related topics ★ Henbun mondai to sono shūhen. [Variational problems and related topics]
Venice ★ Matematica e cultura 2000. (Italian) [Mathematics and culture 2000] **2004e:00011**
— ★ Matematica e cultura 2002. (Italian) [Mathematics and culture 2002] **2004f:00016**
Vertex operator algebras in mathematics and physics ★ Vertex operator algebras in mathematics and physics. **2004g:00021**
Vilnius ★ Topics in algebraic geometry and geometric modeling. **2004j:00026**
Visualization and mathematics III ★ Visualization and mathematics III. **2004j:00028**
Vouliagmeni ★ {Selected papers from the 2nd WSEAS Multiconference and the 3rd WSEAS Symposium}.
Washington, DC ★ Proceedings, Part 1, IARD 2002.
— ★ Proceedings, Part 2, IARD 2002.
Waterloo, ON ★ Novel approaches to hard discrete optimization. **2004a:00021**
— ★ Thirteenth Canadian Conference on Computational Geometry—CCCG'01.
Waves in periodic and random media ★ Waves in periodic and random media. **2004j:00029**
Wilmington, NC ★ Dynamical systems and differential equations.
Workshop:
Differential Equations ★ Workshop on Differential Equations.
Non-stationary Time Series: a Theoretical, Computational and Practical Challenge ★ Towards a new vision of complexity.
Operations Research Group ★ {OR and models}.
Random Geometry ★ Workshop on Random Geometry.
Yellow Mountains ★ Nonlinear evolution equations and dynamical systems. **2004j:00020**
Yokohama ★ Noncommutative geometry and string theory. **2004h:00024**

Items with secondary classifications in 00B25

(Becchi, Antonio) *see* **Essays on the history of mechanics, 2004k:70002**
(Benvenuto, Edoardo) *see* **Essays on the history of mechanics, 2004k:70002**
(Blokhuis, Aart) *see* **Proceedings: Conference on Finite Geometries**
(Cannon, John R.) *see* **Progress in partial differential equations**
(Casaban Moya, Enric) *see* **Congress: Philosophy, 2004d:03008**
(Castillo, José E.) *see* **Applied and computational mathematics**
(Cheng, Shiu Yuen) *see* **Recent advances in scientific computing and partial differential equations, 2004e:00016**
(Corradi, Massimo) *see* **Essays on the history of mechanics, 2004k:70002**
(Cucker, Felipe) *see* **Foundations of computational mathematics, 2004g:65003**
(Dillon, Robert H.) *see* **Progress in partial differential equations**
(Duff, Michael J.) *see* **2001: a spacetime odyssey**
(Fauvet, F.) *see* **From combinatorics to dynamical systems, 2004j:00033**
(Foce, Federico) *see* **Essays on the history of mechanics, 2004k:70002**
(Fradkin, Efim Samoilovich) *see* **Quantization, gauge theory, and strings, 2004d:00026** *and* **2004e:00015**
(Frege, Gottlob Friedrich Ludwig) *see* **Building on Frege, 2004e:03016**
(Goldhaber, Alfred Scharff) *see* **Symmetry & modern physics, 2004j:00037**
(de Gosson, Maurice A.) *see* **Proceedings: Jean Leray Conference, '99, 2004j:00035**
(Gregersen, Niels Henrik) *see* **From complexity to life, 2004f:00007**
(Hirschfeld, James W. P.) *see* **Proceedings: Conference on Finite Geometries**
(Ibragimov, Ibragim Ibishevich) *see* **Applied problems of mathematics and mechanics**
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(Jerison, David) *see* **Current developments in mathematics, 2002, 2004k:00022**
(Jungnickel, Dieter) *see* **Proceedings: Conference on Finite Geometries**
(Khapalov, Alexander Y.) *see* **Progress in partial differential equations**
(Kim, Kang-Tae) *see* **Conference: Several Complex Variables**
(Kowalski, Oldřich) *see* **Differential geometry and its applications, 2004a:53002**
(Krupka, Demeter) *see* **Differential geometry and its applications, 2004a:53002**
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(Liu, James T.) *see* **2001: a spacetime odyssey**
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(Manoranjan, Valipuram S.) *see* **Progress in partial differential equations**
(Mazur, Barry C.) *see* **Current developments in mathematics, 2002, 2004k:00022**
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(Mrowka, T. S.) *see* **Current developments in mathematics, 2002, 2004k:00022**
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(Osher, Stanley J.) *see* **Recent advances in scientific computing and partial differential equations, 2004e:00016**
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(Rojas, J. Maurice) *see* **Foundations of computational mathematics, 2004g:65003**
(Schiehlen, Werner) *see* **Virtual nonlinear multibody systems, 2004c:70002**
(Schmid, Wilfried) *see* **Current developments in mathematics, 2002, 2004k:00022**
(Semikhatov, A. M.) *see* **Quantization, gauge theory, and strings, 2004d:00026** *and* **2004e:00015**
(Shrock, Robert) *see* **Symmetry & modern physics, 2004j:00037**
(Shu, Chi-Wang) *see* **Recent advances in scientific computing and partial differential equations, 2004e:00016**
(Slovák, Jan) *see* **Differential geometry and its applications, 2004a:53002**
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(Smith, John) *see* **Symmetry & modern physics, 2004j:00037**
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(Stuhlmann-Laeisz, Rainer) *see* **Building on Frege, 2004e:03016**
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(Vasil′ev, M. A.) *see* **Quantization, gauge theory, and strings, 2004d:00026** *and* **2004e:00015**
(Weisberger, W.) *see* **Symmetry & modern physics, 2004j:00037**
(Yang, Chen Ning) *see* **Proceedings: Symposium on Frontiers of Science, 2004i:00019** *and* **Symmetry & modern physics, 2004j:00037**
(Yau, Shing Tung) *see* **Current developments in mathematics, 2002, 2004k:00022**
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(Zaikin, V. N.) *see* **Quantization, gauge theory, and strings, 2004d:00026** *and* **2004e:00015**

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2001: a spacetime odyssey ★ 2001: a spacetime odyssey.
Ann Arbor, MI ★ 2001: a spacetime odyssey.
Applied and computational mathematics ★ Applied and computational mathematics.
Applied problems of mathematics and mechanics ★ Applied problems of mathematics and mechanics.
Baku ★ Applied problems of mathematics and mechanics.
Beijing ★ Proceedings of the International Symposium on Frontiers of Science. **2004i:00019**
Building on Frege ★ Building on Frege. **2004e:03016**
Cambridge, MA ★ Current developments in mathematics, 2002. **2004k:00022**
Conference:
Michigan Center for Theoretical Physics ★ 2001: a spacetime odyssey.
Partial Differential Equations ★ Progress in partial differential equations.
Several Complex Variables ★ {Sixth International Conference on Several Complex Variables}.
Congress:
Philosophy ★ XIV$^{\text{è}}$ Congrés Valencià de Filosofia. (Spanish) [XIVth Valencia Congress of Philosophy] **2004d:03008**
Contemporary Mathematics ★ Recent advances in scientific computing and partial differential equations. **2004e:00016**
Córdoba ★ Applied and computational mathematics.
Current developments in mathematics, 2002 ★ Current developments in mathematics, 2002. **2004k:00022**
Differential geometry and its applications ★ Differential geometry and its applications. **2004a:53002**
Essays on the history of mechanics ★ Essays on the history of mechanics. **2004k:70002**

Festschrift:
Cannon, John Rozier ★ Progress in partial differential equations.
Osher, Stanley J. ★ Recent advances in scientific computing and partial differential equations. **2004e:00016**
Rektorys, Karel ★ Mathematical and computer modeling in science and engineering.
Smale, Stephen ★ Foundations of computational mathematics. **2004g:65003**
Yang, Chen Ning ★ Proceedings of the International Symposium on Frontiers of Science. **2004i:00019**
Foundations of computational mathematics ★ Foundations of computational mathematics. **2004g:65003**
From combinatorics to dynamical systems ★ From combinatorics to dynamical systems. **2004j:00033**
From complexity to life ★ From complexity to life. **2004f:00007**
Genoa ★ Essays on the history of .lechanics. **2004k:70002**
Gyeongju ★ {Sixth International Conference on Several Complex Variables}.
Homology theories, representations and Hopf algebras ★ Théories d'homologie, représentations et algèbres de Hopf. [Homology theories, representations and Hopf algebras]
Hong Kong ★ Foundations of computational mathematics. **2004g:65003**
— ★ Recent advances in scientific computing and partial differential equations. **2004e:00016**
Karlskrona ★ Jean Leray '99 Conference Proceedings. **2004j:00035**
Kyoto ★ Words, languages & combinatorics III. **2004h:68006**
Luminy ★ Théories d'homologie, représentations et algèbres de Hopf. [Homology theories, representations and Hopf algebras]
Mathematical and computer modeling in science and engineering ★ Mathematical and computer modeling in science and engineering.
Memorial Issue:
Ibragimov, Ibragim Ibishevich ★ Applied problems of mathematics and mechanics.
Memorial Volume:
Fradkin, Efim Samoĭlovich ★ Quantization, gauge theory, and strings. Vol. I. **2004d:00026**
— ★ Quantization, gauge theory, and strings. Vol. II. **2004e:00015**
Moscow ★ Quantization, gauge theory, and strings. Vol. I. **2004d:00026**
— ★ Quantization, gauge theory, and strings. Vol. II. **2004e:00015**
Oberwolfach ★ {Proceedings of the Conference on Finite Geometries}.
Opava ★ Differential geometry and its applications. **2004a:53002**
Peníscola ★ XIV^{e} Congrés Valencià de Filosofia. (Spanish) [XIVth Valencia Congress of Philosophy] **2004d:03008**
Prague ★ Virtual nonlinear multibody systems. **2004c:70002**
Proceedings:
Conference on Finite Geometries ★ {Proceedings of the Conference on Finite Geometries}.
Jean Leray Conference, '99 ★ Jean Leray '99 Conference Proceedings. **2004j:00035**
Symposium on Frontiers of Science ★ Proceedings of the International Symposium on Frontiers of Science. **2004i:00019**
Progress in partial differential equations ★ Progress in partial differential equations.
Pullman, WA ★ Progress in partial differential equations.
Quantization, gauge theory, and strings ★ Quantization, gauge theory, and strings. Vol. I. **2004d:00026**
— ★ Quantization, gauge theory, and strings. Vol. II. **2004e:00015**
Recent advances in scientific computing and partial differential equations ★ Recent advances in scientific computing and partial differential equations. **2004e:00016**
Stony Brook, NY ★ Symmetry & modern physics. **2004j:00037**
Strasbourg ★ From combinatorics to dynamical systems. **2004j:00033**
Symmetry & modern physics ★ Symmetry & modern physics. **2004j:00037**
Théories d'homologie, représentations et algèbres de Hopf ★ Théories d'homologie, représentations et algèbres de Hopf. [Homology theories, representations and Hopf algebras]
Virtual nonlinear multibody systems ★ Virtual nonlinear multibody systems. **2004c:70002**
Words, languages & combinatorics ★ Words, languages & combinatorics III. **2004h:68006**

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Bannai, Eiichi (*with* Haemers, Willem; Solé, Patrick) Preface: Dedication [To Johan Jacob Seidel 1919–2001].
(Barlotti, Adriano) *see* **Special Issue: Dedicated to Adriano Barlotti**
Bart, Harm (*with* Koltracht, Israel; Markus, Alexander S.; Rodman, Leiba) Preface [Special issue in honor of Peter Lancaster].
(Basmann, Robert L.) *see* **In honor of Robert L. Basmann**
(Bass, Hyman) *see* **Special Issue: In honor of Hyman Bass on his seventieth birthday, Part I; Special Issue: In honor of Hyman Bass on his seventieth birthday, Part II; Special Issue: In honor of Hyman Bass on his seventieth birthday, Part III** *and* **Special Issue: In honor of Hyman Bass on his seventieth birthday, Part IV**
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(Çoker, Doğan) *see* **In memoriam of Prof. Doğan Çoker**
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Dieks, Dennis (*with* Uffink, Jos; van Lith, Janneke; Lubberdink, Andrea) Editorial: [Rob Clifton memorial issue].
(Dillon, Robert H.) *see* **Progress in partial differential equations**
Ding, Cun Sheng (*with* Xing, Chaoping) Guest editors' preface: Special issue on cryptography and coding theory [Festschrift for Harald Niederreiter].
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Drozd, Yu. A. (*with* Kirichenko, V. V.; Komarnitskiĭ, N. Ya.; et al.) {Special issue in honor of the 50th birthday of Rostislav Grigorchuk}.
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Faiz, S. M. A. Foreword [In honor of professor A. K. Md. Ehsanes Saleh on the occasion of his 70th birthday].
(Farin, Gerald) *see* **In memory of Professor J. Hoschek**
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(Gentili, Giorgio) *see* Mathematical models and methods for smart materials, 2004j:00034
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(Gindikin, Simon G.) *see* Lie groups and symmetric spaces, 2004f:00021
Goel, Bal B. P. S. Editorial note [Dedication to Prof. Prem Narain].
(Gohberg, Israel) *see* Interpolation theory, systems theory and related topics, 2004f:00020 *and* Operator theoretical methods and applications to mathematical physics, 2004k:00025
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(de Gosson, Maurice A.) *see* Proceedings: Jean Leray Conference, '99, 2004j:00035
(Grabowski, Janusz) *see* Classical and quantum integrability, 2004d:00024
Gramchev, Todor (*with* Popivanov, Petʺr R.) Preface [Proceedings of the Conference on Partial Differential Equations on Spaces with Geometric Singularities].
(Grattan-Guinness, Ivor) *see* Festschrift: Grattan-Guinness, Ivor
(Greenberger, Daniel M.) *see* Special issue: Dedicated to David Mermin
(Greene, Robert E.) *see* Explorations in complex and Riemannian geometry, 2004g:00022
(Griffith, Phillip) *see* Special Issue: In honor of Reinhold Baer
(Grigorchuk, Rostislav) *see* Drozd, Yu. A. et al.
(Grundhöfer, Theo) *see* Special Issue: Dedicated to Adriano Barlotti
(Gruska, Jozef) *see* Logics of formal specification languages
(Gu, Chaohao) *see* Differential geometry and related topics, 2004m:00012
(Guieu, Laurent) *see* Orbit method in geometry and physics, 2004c:00020
(Győri, István) *see* Dedicated to István Győri on the occasion of his sixtieth birthday
(Haag, Rudolf) *see* Dedicated to Rudolf Haag
Haemers, Willem *see* Bannai, Eiichi et al.
(Hà Huy Khoái) *see* Dedicated to the memory of Le Van Thiem
(Haken, Hermann) *see* Dedicated to the 75th anniversary of Professor Hermann Haken
Hanif, Muhammad Dr. Mir Masoom Ali, George and Frances Ball Distinguished Professor of Statistics [Special issue in honour of Ali].
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(Harnad, John) *see* Symmetry in physics, 2004k:00026
(Harper, Lawrence) *see* Selected papers in honor of Lawrence Harper
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Dedicated to Adrian Bondy and U. S. R. Murty ★ {Dedicated to Adrian Bondy and U. S. R. Murty}.
Dedicated to Costică Mustăţa on his 60th anniversary ★ Dedicated to Costică Mustăţa on his 60th anniversary.
Dedicated to Dr. Millard F. Beatty, Jr. ★ {Dedicated to Dr. Millard F. Beatty, Jr.}.
Dedicated to István Győri on the occasion of his sixtieth birthday ★ Dedicated to István Győri on the occasion of his sixtieth birthday.
Dedicated to John J. H. Miller on the occasion of his 65th birthday ★ {Dedicated to John J. H. Miller on the occasion of his 65th birthday}.
Dedicated to late Prof. M. Bounias ★ Dedicated to late Prof. M. Bounias.
Dedicated to our teacher, mentor and friend, Nobel laureate, Ilya Prigogine ★ Dedicated to our teacher, mentor and friend, Nobel laureate, Ilya Prigogine.
Dedicated to Philippe Bénilan ★ Dedicated to Philippe Bénilan.
— ★ Dedicated to Philippe Bénilan.
Dedicated to Professor Aleksander Pełczyński on the occasion of his 70th birthday ★ Profesorowi Aleksandrowi Pełczyńskiemu w siedemdziesięciolecie urodzin. [Dedicated to Professor Aleksander Pełczyński on the occasion of his 70th birthday]
— ★ Profesorowi Aleksandrowi Pełczyńskiemu w siedemdziesięciolecie urodzin. [Dedicated to Professor Aleksander Pełczyński on the occasion of his 70th birthday]
Dedicated to Professor George R. Sell on the occasion of his 65th birthday ★ Dedicated to Professor George R. Sell on the occasion of his 65th birthday.
Dedicated to Professor K. S. Padmanabhan ★ {Dedicated to Professor K. S. Padmanabhan}.
Dedicated to Professor Lajos Tamássy on the occasion of his 80th birthday ★ {Dedicated to Professor Lajos Tamássy on the occasion of his 80th birthday}.
Dedicated to Professor Radosav Ž. Đorđević for his 65th birthday ★ Dedicated to Professor Radosav Ž. Đorđević for his 65th birthday.
Dedicated to Raymond W. Ogden on the occasion of his 60th birthday ★ {Dedicated to Raymond W. Ogden on the occasion of his 60th birthday}.
Dedicated to Rudolf Haag ★ {Dedicated to Rudolf Haag}.
Dedicated to the 100th birthday anniversary of Professor Victor Kupradze ★ {Dedicated to the 100th birthday anniversary of Professor Victor Kupradze}.
Dedicated to the 100th birthday of Academician Petr Sergeevich Novikov ★ К 100-летию со дня рождения академика Петра Сергеевича Новикова. (Russian) [Dedicated to the 100th birthday of Academician Petr Sergeevich Novikov]
Dedicated to the 60th birthday of John B. Moore ★ Dedicated to the 60th birthday of John B. Moore. Part I.
Dedicated to the 65th birthday of Professor Franco Migliorini ★ {Dedicated to the 65th birthday of Professor Franco Migliorini}.
Dedicated to the 70th birthday of Corresponding Member of the RAS Oleg Vladimirovich Besov ★ К 70-летию со дня рождения члена-корреспондента РАН Олега Владимировича Бесова. (Russian) [Dedicated to the 70th birthday of Corresponding Member of the RAS Oleg Vladimirovich Besov]
Dedicated to the 70th birthday of Professor Stephen Dancs ★ {Dedicated to the 70th birthday of Professor Stephen Dancs}.
Dedicated to the 75th anniversary of Professor Hermann Haken ★ {Dedicated to the 75th anniversary of Professor Hermann Haken}.
Dedicated to the 75th anniversary of Vitaliĭ Yakovich Skorobogat′ko ★ 75-річчю професора Віталія Яковича Скоробогатька присвячується. (Ukrainian) [Dedicated to the 75th anniversary of Professor Vitalii Yakovich Skorobogat′ko]
Dedicated to the 80th birthday of Academician Igor′ Rostislavovich Shafarevich ★ К 80-летию со дня рождения академика Игоря Ростиславовича Шафаревича. (Russian) [Dedicated to the 80th birthday of Academician Igor′ Rostislavovich Shafarevich]
Dedicated to the 85th birthday of Nikolaĭ Mikhaĭlovich Korobov ★ 85-летию со дня рождения Николая Михайловича Коробова посвящается. (Russian) [Dedicated to the 85th birthday of Nikolaĭ Mikhaĭlovich Korobov]
Dedicated to the 90th anniversary of the birth of Academician Aleksandr Yul′evich Ishlinskiĭ ★ Посвящается 90-летию со дня рождения Александра Юльевича Ишлинского. (Russian) [Dedicated to the 90th anniversary of the birth of Academician Aleksandr Yul′evich Ishlinskiĭ]
Dedicated to the memory of Acad. Tiberiu Popoviciu ★ {Dedicated to the memory of Acad. Tiberiu Popoviciu}.
Dedicated to the memory of Gian-Carlo Rota ★ Dedicated to the memory of Gian-Carlo Rota.
— ★ Dedicated to the memory of Gian-Carlo Rota.
— ★ Dedicated to the memory of Gian-Carlo Rota.
Dedicated to the memory of Jürgen K. Moser ★ Dedicated to the memory of Jürgen K. Moser.
Dedicated to the memory of Le Van Thiem ★ Dedicated to the memory of Le Van Thiem.
Dedicated to the memory of Professor Dr. Péter Kiss ★ {Dedicated to the memory of Professor Dr. Péter Kiss}.
Dedicated to the memory of Professor Revaz Chitashvili ★ {Dedicated to the memory of Professor Revaz Chitashvili}.
Dedicated to Vadim Utkin on the occasion of his 65th birthday ★ Dedicated to Vadim Utkin on the occasion of his 65th birthday.
Dedicated to Vladimir I. Arnold on the occasion of his 65th birthday ★ {Dedicated to Vladimir I. Arnold on the occasion of his 65th birthday}.
Dedicated to Yuri I. Manin on the occasion of his 65th birthday ★ {Dedicated to Yuri I. Manin on the occasion of his 65th birthday}.
— ★ Dedicated to Yuri I. Manin on the occasion of his 65th birthday.
Dedicted to Professor Horst Sachs on the occasion of his 75th birthday ★ {Dedicated to Professor Horst Sachs on the occasion of his 75th birthday}.
Differential geometry and related topics ★ Differential geometry and related topics. **2004m:00012**
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Ergodic Theory Dynam. Systems 22 (2002), no. 5 Corrigendum: Ergodic Theory Dynam. Systems **22** (2002), no. 5. **2004c:00019**
Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III ★ Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. II.
Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. I ★ Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. I.
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Abhyankar, Shreeram Shankar ★ Algebra, arithmetic and geometry with applications. **2004j:00030**
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Barlotti, Adriano ★ Special issue dedicated to Adriano Barlotti.
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Beatty, Millard F., Jr. ★ {Dedicated to Dr. Millard F. Beatty, Jr.}.

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Bondy, John Adrian ★ {Dedicated to Adrian Bondy and U. S. R. Murty}.
Bony, Jean-Michel ★ Autour de l'analyse microlocale. [On microlocal analysis]
Calabi, Eugenio ★ Surveys in differential geometry. Vol. VIII. **2004j:00036**
Cannon, John Rozier ★ Progress in partial differential equations.
Dancs, Stephen ★ {Dedicated to the 70th birthday of Professor Stephen Dancs}.
Davis, Stephen H. ★ Interfaces for the 21st century. **2004g:00023**
Đorđević, Radosav Ž. ★ Dedicated to Professor Radosav Ž. Đorđević for his 65th birthday.
Dvorak, George J. ★ A special issue in honour of George J. Dvorak.
Dym, Harry ★ Interpolation theory, systems theory and related topics. **2004f:00020**
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Goodman, Jacob Eli ★ Discrete and computational geometry. **2004j:00031**
Grattan-Guinness, Ivor ★ A Festschrift in honour of Professor Ivor Grattan-Guinness.
— ★ A Festschrift in honour of Professor Ivor Grattan-Guinness.
Greene, Robert Everist ★ Explorations in complex and Riemannian geometry. **2004g:00022**
Gruska, Jozef ★ Logics of formal specification languages.
Haag, Rudolf ★ {Dedicated to Rudolf Haag}.
Haken, Hermann ★ {Dedicated to the 75th anniversary of Professor Hermann Haken}.
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Harper, Lawrence H. ★ Selected papers in honor of Lawrence Harper.
Haussmann, Werner ★ {On the 60th birthday of Professor Werner Haußmann}.
Jakubík, Ján ★ General algebra and ordered sets.
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Kleiman, Steven L. ★ Special issue in honor of Steven L. Kleiman.
Korobov, Nikolaĭ Mikhaĭlovich ★ 85-летию со дня рождения Николая Михайловича Коробова посвящается. (Russian) [Dedicated to the 85th birthday of Nikolaĭ Mikhaĭlovich Korobov]
Kuperberg, Włodzimierz ★ Discrete geometry. **2004i:00017**
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Mallios, Anastasios ★ Topological algebras with applications to differential geometry and mathematical physics. **2004c:00022**
Manin, Yuriĭ Ivanovich ★ {Dedicated to Yuri I. Manin on the occasion of his 65th birthday}.
— ★ Dedicated to Yuri I. Manin on the occasion of his 65th birthday.
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Newell, Alan C. ★ Complexity and nonlinearity in physical systems.
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Pollack, Richard M. ★ Discrete and computational geometry. **2004j:00031**
Rektorys, Karel ★ Mathematical and computer modeling in science and engineering.
Sachs, Horst ★ {Dedicated to Professor Horst Sachs on the occasion of his 75th birthday}.
Sell, George R. ★ Dedicated to Professor George R. Sell on the occasion of his 65th birthday.
Shafarevich, Igor' Rostislavovich ★ К-80 летию со дня рождения академика Игоря Ростиславовича Шафаревича. (Russian) [Dedicated to the 80th birthday of Academician Igor' Rostislavovich Shafarevich]
Siu, Yum Tong ★ Surveys in differential geometry. Vol. VIII. **2004j:00036**
Stroock, Daniel W. ★ {Special issue dedicated to Daniel W. Stroock and Srinivasa S. R. Varadhan on the occasion of their 60th birthday}.
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Uhlenbeck, Karen Keskulla ★ Surveys in differential geometry. Vol. VIII. **2004j:00036**
Utkin, Vadim I. ★ Dedicated to Vadim Utkin on the occasion of his 65th birthday.
Varadhan, Srinivasa S. R. ★ {Special issue dedicated to Daniel W. Stroock and Srinivasa S. R. Varadhan on the occasion of their 60th birthday}.
Yang, Chen Ning ★ Proceedings of the International Symposium on Frontiers of Science. **2004i:00019**
Formal and natural computing ★ Formal and natural computing. **2004j:00032**
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Grammars and automata for string processing ★ Grammars and automata for string processing. **2004i:00018**
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Homage to Luis Santaló. Vol. 1 ★ Homenaje a Luis Santaló. Vol. 1. (Spanish) [Homage to Luis Santaló. Vol. 1]
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Iaşi ★ International Conference on Complex Analysis and the 8th Romanian-Finnish Seminar.
In honor of Frank Harary ★ In honor of Frank Harary.
In honor of Robert L. Basmann ★ {In honor of Robert L. Basmann}.
In honour of Klaus-Jürgen Bathe ★ In honour of Klaus-Jürgen Bathe.
In honour of Zhu Lie ★ In honour of Zhu Lie.
In memoriam of Prof. Doğan Çoker ★ In memoriam of Prof. Doğan Çoker (1951–2003).
In memory of C. S. Sibirsky ★ {In memory of C. S. Sibirsky}.
In memory of Professor Dr. Mohamad Rashidi Bin Md. Razali ★ {In memory of Professor Dr. Mohamad Rashidi Bin Md. Razali}.
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Memorial Issue:
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Bénilan, Philippe ★ Dedicated to Philippe Bénilan.
Bounias, Michel ★ Dedicated to late Prof. M. Bounias.
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Ciorănescu, Nicolae ★ Miron Nicolescu (1903–1975) and Nicolae Ciorănescu (1903–1957).
Çoker, Doğan ★ In memoriam of Prof. Doğan Çoker (1951–2003).
Drazin, Philip Gerald ★ In memoriam Prof. Philip Gerald Drazin 1934–2002.
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Padmanabhan, Karaikurichi Srinivasan ★ {Dedicated to Professor K. S. Padmanabhan}.
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Rota, Gian-Carlo ★ Dedicated to the memory of Gian-Carlo Rota.
— ★ Dedicated to the memory of Gian-Carlo Rota.
— ★ Dedicated to the memory of Gian-Carlo Rota.
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Truesdell, Clifford Ambrose, III ★ Essays and papers dedicated to the memory of Clifford Ambrose Truesdell III. Vol. II.
Tsagas, Grigorios T. ★ Volume dedicated to the memory of Grigorios Tsagas (1935–2003), President of Balkan Society of Geometers (1997–2003).
— ★ Volume dedicated to the memory of Grigorios Tsagas (1935–2003), president of the Balkan Society of Geometers (1997–2003).
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Miron Nicolescu (1903–1975) and Nicolae Ciorănescu (1903–1957) ★ Miron Nicolescu (1903–1975) and Nicolae Ciorănescu (1903–1957).
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— ★ К 100-летию со дня рождения академика Петра Сергеевича Новикова. (Russian) [Dedicated to the 100th birthday of Academician Petr Sergeevich Novikov]
Nara ★ Lie groups, geometric structures and differential equations—one hundred years after Sophus Lie. **2004a:00022**
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Special issue:
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Special Issue:
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  Dedicated to the 70th birthday of Professor Zhong-Ci Shi ★ Special issue dedicated to the 70th birthday of Professor Zhong-Ci Shi.
  Dedicated to the memory of Hannah Miriam Sandler (1960–1999) ★ Special volume dedicated to the memory of Hanna Miriam Sandler (1960–1999).
  Dedicated to Victor A. Pliss on the occasion of his 70th birthday ★ Special issue dedicated to Victor A. Pliss on the occasion of his 70th birthday.
  In honor of Hyman Bass on his seventieth birthday, Part I ★ Special issue in honor of Hyman Bass on his seventieth birthday. Part I.
  In honor of Hyman Bass on his seventieth birthday, Part II ★ Special issue in honor of Hyman Bass on his seventieth birthday. Part II.
  In honor of Hyman Bass on his seventieth birthday, Part III ★ Special issue in honor of Hyman Bass on his seventieth birthday. Part III.
  In honor of Hyman Bass on his seventieth birthday, Part IV ★ Special issue in honor of Hyman Bass on his seventieth birthday. Part IV.
  In honor of Professor Siljak's 70th birthday ★ Special issues in honor of Professor Siljak's 70th birthday.
  In honor of Reinhold Baer ★ Special issue in honor of Reinhold Baer (1902–1979).
  In honor of Steven L. Kleiman ★ Special issue in honor of Steven L. Kleiman.
  In honour of George J. Dvorak ★ A special issue in honour of George J. Dvorak.
  In memory of Jacques-Louis Lions ★ Special issue in memory of Jacques-Louis Lions.
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  Šiljak, Dragoslav D. ★ Special issues in honor of Professor Siljak's 70th birthday.
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Veszprém ★ Dedicated to István Győri on the occasion of his sixtieth birthday.
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Jones, William Branham ★ 2001: a mathematics odyssey.
Kurz, Mordecai ★ Symposium in Honor of Mordecai Kurz.
Lavrent′ev, Mikhail Mikhailovich ★ Ill-posed and inverse problems. **2004g:35002**
Lazarov, Raytcho D. ★ {Dedicated to Raytcho Lazarov}.
Lindley, Dennis V. ★ Bayesian statistics 7. **2004g:62009**
Lindquist, Anders ★ Directions in mathematical systems theory and optimization. **2004e:93003**
Litvinchuk, Georgii Semenovich ★ Factorization, singular operators and related problems. **2004d:47001**
Marek, Ivo ★ Dedicated to the 70th birthday of Ivo Marek.
McIntosh, Alan G. R. ★ International Conference on Harmonic Analysis and Related Topics. **2004d:00015**
Mermin, N. David ★ Special issue dedicated to David Mermin. Part II.
— ★ Special issue dedicated to David Mermin. Part I.
Mickens, Ronald E. ★ Dedicated to Professor Ronald E. Mickens on the occasion of his 60th birthday.
Mitskevich, Nikolai Vsevolodovich ★ Fourth Workshop on Gravitation and Mathematical Physics.
Nadler, Sam B., Jr. ★ Continuum theory. **2004d:54002**
Osher, Stanley J. ★ Special issue in honor of the sixtieth birthday of Stanley Osher.
Pełczyński, Aleksander ★ {Dedicated to Professor Aleksander Pełczyński on the occasion of his 70th birthday}.
Polak, Elijah ★ A tribute to Elijah (Lucien) Polak.
Puu, Tönu ★ Complex economic phenomena in time and space.
Raghavarao, Damaraju ★ Recent advances in experimental designs and related topics. **2004j:62011**
Rényi, Alfréd ★ Rényi Alfréd születésének 75. évfordulója. (Hungarian) [The 75th anniversary of Alfréd Rényi]
Révész, Pál ★ Limit theorems in probability and statistics. Vol. I. **2004a:60004**
— ★ Limit theorems in probability and statistics. Vol. II. **2004a:60005**
Rice, John Rischard ★ Computational science, mathematics and software. **2004f:65002**
Saleh, A. K. Md. Ehsanes ★ In honour of Professor A. K. Md. Ehsanes Saleh on the occasion of his 70th birthday.
Satofuka, Nobuyuki ★ Computational fluid dynamics for the 21st century. **2004d:76003**
Seshadri, Conjeeveram S. ★ A tribute to C. S. Seshadri. **2004f:14002**
Sharkovs′kiĭ, Aleksandr ★ Dedicated to Professor Alexander N. Sharkovsky on the occasion of his 65th birthday.
Siciak, Józef ★ Proceedings of Conference on Complex Analysis.
Slissenko, A. O. ★ Logic and complexity in computer science.
Smale, Stephen ★ Foundations of computational mathematics. **2004g:65003**
Speed, Terence P. ★ Statistics and science: a Festschrift for Terry Speed. **2004d:62008**
Srinivasa Rao, Killampalli ★ Proceedings of the International Conference on Special Functions and their Applications.
Stancu, Dimitrie D. ★ Numerical analysis and approximation theory. **2004d:65007**
Stanley, H. Eugene ★ Statphys—Kolkata IV.
Tijs, Stef H. ★ Chapters in game theory. **2004f:91007**
Triebel, Hans ★ Function spaces, differential operators and nonlinear analysis. **2004e:46004**
Turski, Władysław M. ★ Special issue to honour Professor W. M. Turski's contribution to computing science on the occasion of his 65th birthday.
Überall, Herbert ★ Acoustic interactions with submerged elastic structures. Part IV. **2004g:76002**
Varga, László ★ Hungarian applied mathematics and computer applications.
Villaggio, Piero ★ {Dedicated to Piero Villaggio on the occasion of his 70th birthday}.
Zadeh, Lotfi A. ★ Computational intelligence and applications. **2004h:68005**
Zhang, Yao Ting ★ Development of modern statistics and related topics. **2004j:62009**
Zhou, Yu Lin[1] ★ {Dedicated to the 80th birthday of Professor Zhou Yulin}.
Zolotarev, Vladimir Mikhailovich ★ Hungarian applied mathematics and computer applications.
Formal power series and algebraic combinatorics ★ {Formal power series and algebraic combinatorics}.
Foundations of computational mathematics ★ Foundations of computational mathematics. **2004g:65003**
Funchal ★ Factorization, singular operators and related problems. **2004d:47001**
Function spaces, differential operators and nonlinear analysis ★ Function spaces, differential operators and nonlinear analysis. **2004e:46004**
Garden of quanta ★ A garden of quanta. **2004j:81004**
Genoa ★ Essays on the history of mechanics. **2004k:70002**

Geometry and topology of caustics—CAUSTICS '02 ★ Geometry and topology of caustics—CAUSTICS '02. **2004k:58001**
Grand Junction, CO ★ 2001: a mathematics odyssey.
Heidelberg ★ Computational linguistics for the new millennium: divergence or synergy? **2004d:68158**
Hong Kong ★ Foundations of computational mathematics. **2004g:65003**
Hsinchu ★ Lectures on partial differential equations. **2004k:35003**
Hungarian applied mathematics and computer applications ★ Hungarian applied mathematics and computer applications.
Hyderabad ★ Advances in algebra and geometry. **2004b:00010**
Ill-posed and inverse problems ★ Ill-posed and inverse problems. **2004g:35002**
In honour of Professor A. K. Md. Ehsanes Saleh on the occasion of his 70th birthday ★ In honour of Professor A. K. Md. Ehsanes Saleh on the occasion of his 70th birthday.
Invited papers dedicated to Jacob Bekenstein ★ {Invited papers dedicated to Jacob Bekenstein. Part III}.
Issue dedicated to the memory of Professor Rastko Stojanović ★ Issue dedicated to the memory of Professor Rastko Stojanović.
Kalamazoo, MI ★ Combinatorics, graph theory, and algorithms. Vol. I, II. **2004a:05003**
Kolkata ★ Proceedings of the International Symposium on "Analysis, Manifolds and Mechanics". **2004k:53001**
— ★ Statphys—Kolkata IV.
Kyiv ★ Proceedings of the Conference Dedicated to the 90th Anniversary of Boris Vladimirovich Gnedenko.
— ★ Proceedings of the Conference Dedicated to the 90th Anniversary of Boris Vladimirovich Gnedenko.
Kyoto ★ Computational fluid dynamics for the 21st century. **2004d:76003**
Lecture Notes in Control and Information Sciences ★ Multidisciplinary research in control. **2004d:93004**
— ★ Directions in mathematical systems theory and optimization. **2004e:93003**
Lectures on partial differential equations ★ Lectures on partial differential equations. **2004k:35003**
Legacy of Zellig Harris: language and information into the 21st century ★ The legacy of Zellig Harris: language and information into the 21st century. Vol. 2. **2004d:68159**
Liège ★ Studies in history of mathematics dedicated to A. P. Youschkevitch. **2004j:01005**
Limit theorems in probability and statistics ★ Limit theorems in probability and statistics. Vol. I. **2004a:60004**
— ★ Limit theorems in probability and statistics. Vol. II. **2004a:60005**
Logic and complexity in computer science ★ Logic and complexity in computer science.
London ★ Special issue comprised of papers presented at the Seventeenth International Conference on Transport Theory. Part II.
Los Angeles, CA ★ Mathematical properties of sequences and other combinatorial structures. **2004d:11002**
Luminy ★ Topics in algebraic and noncommutative geometry. **2004h:14003**
Mathematical and statistical methods in reliability ★ Mathematical and statistical methods in reliability. **2004i:62010**
Mathematical properties of sequences and other combinatorial structures ★ Mathematical properties of sequences and other combinatorial structures. **2004d:11002**
Memorial Issue:
Basu, Debabrata[1] ★ Special issue in memory of D. Basu.
Elbert, Árpád ★ Proceedings of the Sixth International Symposium on Orthogonal Polynomials, Special Functions and their Applications. **2004c:33001**
Erdős, Paul[1] ★ Paul Erdős and his mathematics.
Gikhman, Iosif Il'ich ★ Proceedings of the Donetsk Colloquium on Probability Theory and Mathematical Statistics.
Gnedenko, Boris Vladimirovich ★ Proceedings of the Conference Dedicated to the 90th Anniversary of Boris Vladimirovich Gnedenko.
— ★ Proceedings of the Conference Dedicated to the 90th Anniversary of Boris Vladimirovich Gnedenko.
Gupta, Shanti Swarup ★ Forum for Interdisciplinary Mathematics Proceedings on Statistics, Combinatorics & Related Areas.
Kuščer, Ivan ★ Special issue comprised of papers presented at the Seventeenth International Conference on Transport Theory. Part II.
Lazutkin, Vladimir Fedorovich ★ Workshop on Differential Equations.
Martins, Ernesto de Queirós Vieira ★ Special issue in memory of Ernesto Q. V. Martins.
Moser, Jürgen K. ★ Dedicated to the memory of Jürgen K. Moser.
O'Raifeartaigh, Lochlainn ★ Proceedings of the School and Workshop on Logarithmic Conformal Field Theory and its Applications.
Robbins, Herbert E. ★ {Dedicated to the memory of Herbert E. Robbins}.
Rosenthal, Robert W. ★ Special issue in honor of Robert W. Rosenthal.
Sargan, John Denis ★ Memorial issue dedicated to John Denis Sargan.
Simion, Rodica E. ★ {Formal power series and algebraic combinatorics}.
Srivastava, Virendra K. ★ Forum for Interdisciplinary Mathematics Proceedings on Statistics, Combinatorics & Related Areas.
Stojanović, Rastko D. ★ Issue dedicated to the memory of Professor Rastko Stojanović.
Tutte, William Thomas ★ Special issue on the Tutte polynomial.
Memorial Volume:
Dahleh, Mohammed A. ★ Multidisciplinary research in control. **2004d:93004**
Erdős, Paul[1] ★ Combinatorics, graph theory, and algorithms. Vol. I, II. **2004a:05003**
Karpelevich, Fridrikh Izrailevich ★ Analytic methods in applied probability. **2004b:60004**
Michler, Ruth Ingrid ★ Topics in algebraic and noncommutative geometry. **2004h:14003**
Schur, Issai ★ Studies in memory of Issai Schur. **2004a:20003**
Multidisciplinary research in control ★ Multidisciplinary research in control. **2004d:93004**
Namur ★ The axiomatic theory of resource allocation—in honour of Louis Gevers.
Napoli ★ Advances in group theory 2002. **2004k:20001**
Noncommutative harmonic analysis ★ Noncommutative harmonic analysis. **2004j:22002**
Numerical analysis and approximation theory ★ Numerical analysis and approximation theory. **2004d:65007**
Odense ★ Complex economic phenomena in time and space.
Pasadena, CA ★ Proceedings of a Symposium on Dynamic Failure and Thin Film Mechanics.
Paul Erdős and his mathematics ★ Paul Erdős and his mathematics.
Philadelphia, PA ★ Recent advances in experimental designs and related topics. **2004j:62011**
Proceedings:
Colloquium on Probability Theory and Mathematical Statistics ★ Proceedings of the Donetsk Colloquium on Probability Theory and Mathematical Statistics.
Conference Dedicated to the 90th Anniversary of Boris Vladimirovich Gnedenko ★ Proceedings of the Conference Dedicated to the 90th Anniversary of Boris Vladimirovich Gnedenko.
— ★ Proceedings of the Conference Dedicated to the 90th Anniversary of Boris Vladimirovich Gnedenko.
Conference of the Forum for Interdisciplinary Mathematics on Statistics, Combinatorics & Related Areas ★ Forum for Interdisciplinary Mathematics Proceedings on Statistics, Combinatorics & Related Areas.
Conference on Complex Analysis ★ Proceedings of Conference on Complex Analysis.
Conference on Special Functions and their Applications ★ Proceedings of the International Conference on Special Functions and their Applications.
Conference "Modern Problems of Number Theory and its Applications" ★ Труды IV Международной Конференции "Современные Проблемы Теории Чисел и ее Приложения". (Russian) [Proceedings of the IV International Conference "Modern Problems of Number Theory and its Applications"]
— ★ Труды IV Международной Конференции "Современные Проблемы Теории Чисел и ее Приложения". (Russian) [Proceedings of the IV International Conference "Modern Problems of Number Theory and its Applications"]
Dirac Centennial Symposium ★ Proceedings of the Dirac Centennial Symposium. **2004k:81004**
School and Workshop on Logarithmic Conformal Field Theory and its Applications ★ Proceedings of the School and Workshop on Logarithmic Conformal Field Theory and its Applications.
Symposium on Analysis, Manifolds and Mechanics, International ★ Proceedings of the International Symposium on "Analysis, Manifolds and Mechanics". **2004k:53001**
Symposium on Dynamic Failure and Thin Film Mechanics ★ Proceedings of a Symposium on Dynamic Failure and Thin Film Mechanics.
Symposium on Geometry, Dresden ★ Dresden Symposium Geometry—Proceedings. **2004k:00020**
Symposium on Orthogonal Polynomials, Special Functions and their Applications ★ Proceedings of the Sixth International Symposium on Orthogonal Polynomials, Special Functions and their Applications. **2004c:33001**
Progress in Mathematics ★ Studies in memory of Issai Schur. **2004a:20003**
— ★ Noncommutative harmonic analysis. **2004j:22002**
Provinces of logic determined ★ Provinces of logic determined.
— ★ Provinces of logic determined.
Quantum [un]speakables ★ Quantum [un]speakables. **2004f:81046**
Randomness and complexity ★ Randomness and complexity.
Rational continua, classical and new ★ Rational continua, classical and new. **2004e:74002**
Recent advances in experimental designs and related topics ★ Recent advances in experimental designs and related topics. **2004j:62011**
Rehovot ★ Studies in memory of Issai Schur. **2004a:20003**
Rome ★ Proceedings of the Sixth International Symposium on Orthogonal Polynomials, Special Functions and their Applications. **2004c:33001**
Saint-Petersburg ★ Workshop on Differential Equations.
San Diego, CA ★ Stochastic processes and functional analysis. **2004k:60004**
Santa Barbara, CA ★ Multidisciplinary research in control. **2004d:93004**
Scottsdale, AZ ★ {Formal power series and algebraic combinatorics}.
Seminar:
Geometry, Continua and Microstructures ★ Issue dedicated to the memory of Professor Rastko Stojanović.
Spacetime and fundamental interactions ★ Spacetime and fundamental interactions.
Spacetime safari: essays in honour of Vincent Moncrief ★ A spacetime safari: essays in honour of Vincent Moncrief.
Special Issue:
Azen, Stanley P. ★ Special issue in honour of Stan Azen: a birthday celebration.
Dedicated to David Mermin ★ Special issue dedicated to David Mermin. Part II.
— ★ Special issue dedicated to David Mermin. Part I.
In honor of Robert W. Rosenthal ★ Special issue in honor of Robert W. Rosenthal.
In honor of the sixtieth birthday of Stanley Osher ★ Special issue in honor of the sixtieth birthday of Stanley Osher.
In honour of W. M. Turski's 65th birthday ★ Special issue to honour Professor W. M. Turski's contribution to computing science on the occasion of his 65th birthday.
In memory of Ernesto Q. V. Martins ★ Special issue in memory of Ernesto Q. V. Martins.
Ramsey theory ★ Special issue on Ramsey theory.
Tutte polynomial ★ Special issue on the Tutte polynomial.
Stability in graphs and related topics ★ Stability in graphs and related topics.
Stanford, CA ★ Symposium in Honor of Mordecai Kurz.
Statistics and science: a Festschrift for Terry Speed ★ Statistics and science: a Festschrift for Terry Speed. **2004d:62008**
Statphys—Kolkata ★ Statphys—Kolkata IV.
Stochastic processes and functional analysis ★ Stochastic processes and functional analysis. **2004k:60004**
Studies in history of mathematics dedicated to A. P. Youschkevitch ★ Studies in history of mathematics dedicated to A. P. Youschkevitch. **2004j:01005**
Studies in memory of Issai Schur ★ Studies in memory of Issai Schur. **2004a:20003**
Sydney ★ International Conference on Harmonic Analysis and Related Topics. **2004d:00015**
Symposium:
Barndorff-Nielsen, Ole E. ★ Symposium in Honour of Ole E. Barndorff-Nielsen. **2004a:62014**
Computational Science ★ Computational science, mathematics and software.

Symposium: (*cont'd.*)
2004f:65002
Dahleh, Mohammed A. ★ Multidisciplinary research in control. **2004d:93004**
Kurz, Mordecai ★ Symposium in Honor of Mordecai Kurz.
Tallahassee, FL ★ Proceedings of the Dirac Centennial Symposium. **2004k:81004**
Tehran ★ Proceedings of the School and Workshop on Logarithmic Conformal Field Theory and its Applications.
Teistungen ★ Function spaces, differential operators and nonlinear analysis. **2004e:46004**
Tenerife ★ Bayesian statistics 7. **2004g:62009**
Towards a theory of geometric graphs ★ Towards a theory of geometric graphs. **2004m:05004**
Tribute to C. S. Seshadri ★ A tribute to C. S. Seshadri. **2004f:14002**
Tribute to Elijah (Lucien) Polak ★ A tribute to Elijah (Lucien) Polak.
Trondheim ★ Mathematical and statistical methods in reliability. **2004i:62010**
Tula ★ Труды IV Международной Конференции "Современные Проблемы Теории Чисел и ее Приложения". (Russian) [Proceedings of the IV International Conference "Modern Problems of Number Theory and its Applications"]
— ★ Труды IV Международной Конференции "Современные Проблемы Теории Чисел и ее Приложения". (Russian) [Proceedings of the IV International Conference "Modern Problems of Number Theory and its Applications"]
— ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть I. (Russian) [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part I] **2004b:11004**
— ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть II. [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part II] **2004b:11005**
— ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть III. (Russian) [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part III] **2004b:11006**
— ★ {75-летию со дня рождения Александра Васильевича Малышева посвящается}. (Russian) [Dedicated to the 75th birthday of Aleksandr Vasil'evich Malyshev]
Vienna ★ Quantum [un]speakables. **2004f:81046**
Vietri sul Mare ★ Spacetime and fundamental interactions.
Warsaw ★ Special issue to honour Professor W. M. Turski's contribution to computing science on the occasion of his 65th birthday.
— ★ Geometry and topology of caustics—CAUSTICS '02. **2004k:58001**
West Lafayette, IN ★ Computational science, mathematics and software. **2004f:65002**
Workshop:
Differential Equations ★ Workshop on Differential Equations.
European Community Training and Mobility of Researchers (TMR) Network ★ Studies in memory of Issai Schur. **2004a:20003**
Gravitation and Mathematical Physics ★ Fourth Workshop on Gravitation and Mathematical Physics.
Schur, Issai ★ Studies in memory of Issai Schur. **2004a:20003**
Structured Programming: The Hard Core of Software Engineering ★ Special issue to honour Professor W. M. Turski's contribution to computing science on the occasion of his 65th birthday.

00B50 Volumes of selected translations

(Borodin, O. V.) *see* **Russian translations. II**

Items listed otherwise than by author

Russian translations. II ★ Russian translations. II.
Sugaku Expositions ★ Sugaku expositions. **2004e:00017**
— ★ Sugaku Expositions. **2004a:00023**
— ★ Sugaku Expositions. **2004g:00024**

00B55 Miscellaneous volumes of translations

(Nomizu, Katsumi) *see* **Selected papers on analysis and differential equations, 2004h:00027**
(Rozhkovskaya, Tamara) *see* **Nonlinear problems and function theory**
(Rubinov, Aleksandr M.) *see* **Optimization and related topics**
(Ural'tseva, N. N.) *see* **Nonlinear problems and function theory**

Items listed otherwise than by author

Algebraic geometry ★ Algebraic geometry.
American Mathematical Society Translations, Series 2 ★ Selected papers on analysis and differential equations. **2004h:00027**
Applied mathematics and information science ★ Applied mathematics and information science. No. 8.
— ★ Nonlinear dynamics and control. 1. Applied mathematics and information science. No. 9.
— ★ Applied mathematics and information science. No. 9.
— ★ Applied mathematics and information science. No. 10.
— ★ Applied mathematics and information science. No. 11.
Applied mathematics and information science. No. 12 ★ Applied mathematics and information science. No. 12.
Applied mathematics and information science. No. 13 ★ Applied mathematics and information science. No. 13.
Complex analysis ★ Complex analysis.
Functional analysis ★ Functional analysis.
Nonlinear dynamics and control ★ Nonlinear dynamics and control. 1. Applied mathematics and information science. No. 9.
Nonlinear problems and function theory ★ Nonlinear problems and function theory.
Optimal control ★ Optimal control.
Optimization and related topics ★ Optimization and related topics. 2.
— ★ Optimization and related topics. 1.
— ★ Optimization and related topics. 3.
Partial differential equations ★ Partial differential equations.
— ★ Partial differential equations.
Selected papers on analysis and differential equations ★ Selected papers on analysis and differential equations. **2004h:00027**
Semigroups of binary relations ★ Semigropus of binary relations.

Items with secondary classifications in 00B55

(Rozhkovskaya, Tamara) *see* **Proceedings: St. Petersburg Mathematical Society, 2004f:00012**
(Rubinov, Aleksandr M.) *see* **Optimization and related topics**
(Ural'tseva, N. N.) *see* **Proceedings: St. Petersburg Mathematical Society, 2004f:00012** *and* **Proceedings: St. Petersburg Mathematical Society. Vol. 9, 2004k:00013**

Items listed otherwise than by author

American Mathematical Society Translations, Series 2 ★ Proceedings of the St. Petersburg Mathematical Society. Vol. IX. **2004f:00012**
Optimization and related topics ★ Optimization and related topics. 4.
Proceedings:
St. Petersburg Mathematical Society ★ Proceedings of the St. Petersburg Mathematical Society. Vol. IX. **2004f:00012**
St. Petersburg Mathematical Society. Vol. 9 ★ Труды Санкт-Петербургского Математического Общества. Том 9. (Russian) [Proceedings of the St. Petersburg Mathematical Society. Vol. 9] **2004k:00013**

00B60 Collections of reprinted articles [see also 01A75]

(Kantor, Jean-Michel) *see* **Mathematical research today, 2004d:00027**
(Sabbah, Claude) *see* **Mathematical research today, 2004d:00027**

Items listed otherwise than by author

Mathematical research today ★ Où en sont les mathématiques? (French) [Mathematical research today] **2004d:00027**
Où en sont les mathématiques? ★ Où en sont les mathématiques? (French) [Mathematical research today] **2004d:00027**

Items with secondary classifications in 00B60

(Ahsanullah, Mohammad) *see* **Applied statistics at the leading edge, 2004k:62014** *and* **Focus on applied statistics, 2004m:62010**
(Atiyah, Michael Francis) *see* **Fields Medallists' lectures, 2004k:00012**
(Iagolnitzer, Daniel) *see* **Fields Medallists' lectures, 2004k:00012**

Items listed otherwise than by author

Applied statistics at the leading edge ★ Applied statistics at the leading edge. **2004k:62014**
Fields Medallists' lectures ★ Fields Medallists' lectures. **2004k:00012**
Focus on applied statistics ★ Focus on applied statistics. **2004m:62010**
Lectures:
Fields Medallists' ★ Fields Medallists' lectures. **2004k:00012**

01–XX History and biography [see also the classification number –03 in the other sections]

01–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Deac, Iuliu ★ Dicţionar enciclopedic al matematicienilor. Vol. II. (Romanian) [Encyclopedic dictionary of mathematicians. Vol. II] **2004h:01001**
(Grattan-Guinness, Ivor) *see* **Encyclopedia: History and philosophy of the mathematical sciences, 2004h:01002**
(İhsanoğlu, Ekmeleddin) *see* **History of mathematical literature during the Ottoman period, 2004b:01001**
(İzgi, Cevat) *see* **History of mathematical literature during the Ottoman period, 2004b:01001**
Mohan, Man Useful web links on history of mathematical sciences.
(Şeşen, Ramazan) *see* **History of mathematical literature during the Ottoman period, 2004b:01001**

Items listed otherwise than by author

Dictionary:
  Mathematicians *see* **Deac, Iuliu, 2004h:01001**
Encyclopedia:
  History and philosophy of the mathematical sciences ★ Companion encyclopedia of the history and philosophy of the mathematical sciences. Vol. 1, 2. **2004h:01002**
History of mathematical literature during the Ottoman period ★ Osmanlı matematik literatürü tarihi. I, II Cilt. (Turkish) [History of mathematical literature during the Ottoman period. Vol. I, II] **2004b:01001**

Items with secondary classifications in 01–00

Pap, Endre Some elements of the classical measure theory. **2004b:28002**
Paunić, Djura History of measure theory. **2004b:28003**

01–02 Research exposition (monographs, survey articles)

Mikhalëv, A. A. (*with* Shpilrain, Vladimir; Yu, Jie-Tai) ★ Combinatorial methods. **2004k:01001**
Shpilrain, Vladimir *see* **Mikhalëv, A. A. et al., 2004k:01001**
Yu, Jie-Tai *see* **Mikhalëv, A. A. et al., 2004k:01001**

01–06 Proceedings, conferences, collections, etc.

(Ansari, S. M. Razaullah) *see* **Science and technology in the Islamic world, 2004j:01003**
(Borgato, Maria Teresa) *see* **Giambattista Riccioli and the scientific merit of the Jesuits in the Baroque period, 2004j:01001**
(Casciani, Santa) *see* **Word, image, number, 2004m:01001**
(Contreni, John J.) *see* **Word, image, number, 2004m:01001**
(van Dalen, Benno) *see* **From China to Paris: 2000 years transmission of mathematical ideas, 2004b:01002**
(Dauben, Joseph W.) *see* **From China to Paris: 2000 years transmission of mathematical ideas, 2004b:01002**
(Demidov, Sergeĭ Sergeevich) *see* **Studies in history of mathematics dedicated to A. P. Youschkevitch, 2004j:01005**
(Dold-Samplonius, Yvonne) *see* **From China to Paris: 2000 years transmission of mathematical ideas, 2004b:01002**
(Folkerts, Menso) *see* **From China to Paris: 2000 years transmission of mathematical ideas, 2004b:01002**
(Huygens, Christiaan) *see* **"Experiment and thought", science in the works of Huygens**
(Jami, Catherine) *see* **Science and state patronage in early modern East Asia**
(Knobloch, Eberhard) *see* **Studies in history of mathematics dedicated to A. P. Youschkevitch, 2004j:01005**
(Mawhin, Jean) *see* **Studies in history of mathematics dedicated to A. P. Youschkevitch, 2004j:01005**
(Nagy, Dénes) *see* **Wasan**
(Napolitani, Pier Daniele) *see* **Medieval and classical traditions and the renaissance of physico-mathematical sciences in the 16th century, 2004j:01002**
(Neuenschwander, Erwin) *see* **Science between qualitas and quantitas, 2004j:01004**
(Nye, Mary Jo) *see* **Modern physical and mathematical sciences, 2004g:01001**
(Riccioli, Giambattista) *see* **Giambattista Riccioli and the scientific merit of the Jesuits in the Baroque period, 2004j:01001**
(Serfati, Michel) *see* **On method, 2004c:01001**
(Souffrin, Pierre) *see* **Medieval and classical traditions and the renaissance of physico-mathematical sciences in the 16th century, 2004j:01002**
(Tukey, John Wilder) *see* **Tribute to John W. Tukey**
(Yushkevich, Adol'f Pavlovich) *see* **Studies in history of mathematics dedicated to A. P. Youschkevitch, 2004j:01005**

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Mitskevich, Nikolai Vsevolodovich Nikolai V. Mitskievich.
Moncrief, Vincent E. Vincent Moncrief and mathematical relativity.
Morawetz, Cathleen Synge 2004 Steele prizes.
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Nekrasov, Aleksandr Ivanovich *see* **Volgina, V. N.**, **2004g:01039**
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Serre, Jean-Pierre The Abel Prize. **2004d:01043**
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Sethian, James A. 2004 Wiener prize.
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Antonevich, Anatoliĭ Borisovich *see* **Bernik, V. I. et al.**
Arov, Damir Zyamovich *see* **Adamyan, V. M. et al.**
Azbelev, Nikolaĭ Viktorovich Professor Nikolai Viktorovich Azbelev (on the occasion of his 80th birthday). **2004b:01050**
Barlotti, Adriano *see* **Grundhöfer, Theo et al.**, **2004j:01025**
Batukhtin, Valentin Dmitrievich *see* **Bigil'deeva, T. B. et al.**
Belavin, A. A. *see* **Feigin, B. L. et al.**
Besov, Oleg Vladimirovich O. V. Besov (on the occasion of his seventieth birthday). (Russian)
Birman, Mikhail Shlemovich *see* **Buslaev, Vladimir S. et al.**
Bondarenko, Boris Anisimovich From the editors [In honor of B. A. Bondarenko]. (Russian)
Bukhshtaber, Viktor Matveevich *see* **Bolibrukh, Andreĭ Andreevich et al.**, **2004f:01020** *and* **Ilyashenko, Yu. S. et al.**
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— Boris Nikolaevich Chetverushkin (on the occasion of his sixtieth birthday). (Russian)
Coroian, Iulian *see* **Berinde, Vasile**
Cruz, José B., Jr. *see* **Simaan, Marwan A.**, **2004c:01042**
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Demidov, Sergeĭ Sergeevich *see* **Anosov, D. V. et al.**
Dezin, Alekseĭ Alekseevich *see* **Vladimirov, Vasiliĭ Sergeevich et al.**
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Kadets, Mikhail Iosifovich Mikhail Iosifovich Kadets (on the occasion of his eightieth birthday). (Russian)
Karzel, Helmut 6th International Conference on Geometry and Applications.
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Kharatishvili, Guram *see* **Tadumadze, Tamaz**
Korobov, Nikolaĭ Mikhaĭlovich Nikolaĭ Mikhaĭlovich Korobov (on the occasion of his eighty-fifth birthday). (Russian)
Koshlyakov, Vladimir Nikolaevich Vladimir Nikolaevich Koshlyakov (on the occasion of his eightieth birthday). (Russian)
Kulikovskiĭ, Andreĭ Gennad'evich Andrei Gennadievich Kulikovskii (on his 70-th birthday). (Russian)
Ladyzhenskaya, Ol'ga Aleksandrovna *see* **Serëgin, G. A.**, **2004e:01055**
Lomadze, Georgiĭ Arsen'evich *see* **Vepkhvadze, T.**
Loskutov, Yuriĭ Mikhaĭlovich Yuriĭ Mikhaĭlovich Loskutov (on the occasion of his seventieth birthday). (Russian)

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Matrosov, Vladimir Mefod′evich 70 years anniversary of Academician Vladimir Mefodijevich Matrosov.
— Vladimir Mefod′evich Matrosov (on the occasion of his seventieth birthday). (Russian)
Mecke, Joseph *see* **Jensen, Eva B. Vedel, 2004c:01035**
Miller, John J. H. *see* **Hemker, P. W. et al.**
Mocanu, Petru T. Professor Petru T. Mocanu on his 70th birthday. **2004a:01038**
Mustăţa, Costică *see* **Cobzaş, Ştefan**
Namazov, Gambar Kazim *see* **Gasymov, M. G. et al.**
Netuka, Ivan *see* **Král, Josef[1]**
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Onishchik, Arkadiĭ L′vovich *see* **Akhiezer, D. N. et al.**
Otelbaev, Mukhtarbaĭ *see* **Aliev, Fikret A. et al.**
Ovsyannikov, Lev Vasil′evich Academician L. V. Ovsyannikov (on the occasion of his 85th birthday). (Russian)
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Pospelov, Dmitriĭ Aleksandrovich Dmitriĭ Aleksandrovich Pospelov (on the occasion of his seventieth birthday). (Russian)
Rakhmatullina, Lina Fazylovna Professor Lina Fazylovna Rakhmatullina (on the occasion of her 70th birthday). **2004c:01045**
Rektorys, Karel *see* **Marek, Ivo**
Reshetnyak, Yurīĭ Grigor′evich *see* **Aleksandrov, Aleksandr Danilovich**
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— Aleksandr Andreevich Samarskiĭ (on the occasion of his 85th birthday). (Russian)
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— Congratulations to Academician Shi Zhongci on his 70th birthday. (Chinese)
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Stancu, Dimitrie D. Professor Dr. honoris causa Dimitrie D. Stancu, honorary member of the Romanian Academy, at his 75th birthday. (*see* **2004d:65007**)
Stanilov, Groz′o 6th International Conference on Geometry and Applications.
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Geometry and Applications 6th International Conference on Geometry and Applications.

Correspondence:
Erdős, Paul[1]–Turán, Pál *see* **Sós, Vera T., 2004c:01043**
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Doctoral students of Professor Walter J. Karplus Doctoral students of Professor Walter J. Karplus. (*see* **2004h:00026**)
Errata:
"Mikhail Shlemovich Birman (on the occasion of his 75th birthday)" Erratum: "Mikhail Shlemovich Birman (on the occasion of his 75th birthday)" (Russian) [Algebra i Analiz **16** (2004), no. 1, 5–14] by V. S. Buslaev, M. Z. Solomyak, and D. R. Yafaev. (Russian)
François Naftali Frenkiel Award for fluid mechanics The 2003 François Naftali Frenkiel Award for fluid mechanics.
Jacques-Louis Lions Prize Prix Jacques-Louis Lions (SMAI). [Jacques-Louis Lions Prize (SMAI)]
Laurent Lafforgue and Vladimir Voevodsky, 2002 Fields Medal; Madhu Sudan, 2002 Nevanlinna Prize Laurent Lafforgue et Vladimir Voevodsky médaillés Fields 2002, Madhu Sudan Prix Nevanlinna 2002. [Laurent Lafforgue and Vladimir Voevodsky, 2002 Fields Medal; Madhu Sudan, 2002 Nevanlinna Prize]
Lazare Carnot Prize Prix Lazare Carnot. [Lazare Carnot Prize]
Louis Armand Prize Prix Louis Armand. [Louis Armand Prize]
Luis José Alías Linares, recipient of the 2002 Region of Murcia Prize for Young Researchers Luis José Alías Linares, recipient of the 2002 Region of Murcia Prize for Young Researchers. (Spanish)
M. V. Keldysh ★ M. B. Келдыш. (Russian) [M. V. Keldysh] **2004m:01035**
Michel Monpetit Prize Prix Michel Monpetit (INRIA). [Michel Monpetit Prize (INRIA)]
Mikhael Gromov, recipient of the Kyoto Prize Le Prix Kyoto a été décerné à Mikhael Gromov. [Mikhael Gromov, recipient of the Kyoto Prize]
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Gol′denveĭzer, Alekseĭ L′vovich Alekseĭ L′vovich Gol′denveĭzer (January 1, 1911–January 12, 2003). (Russian)
Gupta, Shanti Swarup *see* **Santner, Thomas J., 2004f:01036**
Hassani, Noureddine Hommage au professeur Noureddine Hassani. [Homage to Professor Noureddine Hassani]
Hawkes, John *see* **Taylor, S. James**
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Hoschek, Josef In memoriam Josef Hoschek.
Ikeda, Masatoshi Gündüz *see* **Koç, Cemal**
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Ishlinskiĭ, Aleksandr Yul′evich Aleksandr Yul′evich Ishlinskiĭ (August 6, 1913–February 7, 2003). (Russian)
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Johnson, Barry Edward *see* **Sinclair, Allan M.**
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Korobeĭnikov, Viktor Pavlovich Viktor Pavlovich Korobeĭnikov (March 15, 1929–February 6, 2003). (Russian)
Kóváry, Károly *see* **Surányi, László**
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Mamiani, Maurizio *see* **Bertoloni Meli, Domenico**
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Martins, Ernesto de Queirós Vieira *see* **Rosa, Mário S.**
Massera, José Luís José Luis Massera (8 juin 1915–9 septembre 2002). [José Luis Massera (8 June 1915–9 September 2002)]
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Tait, Peter Guthrie *see* **Thomson, William, Lord Kelvin**
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Van Hove, Léon ★ The legacy of Léon Van Hove. **2004g:01047**
Collected Works:
Bauer, Heinz *see* **Bauer, Heinz, 2004h:01038**
Bolzano, Bernard *see* **Bolzano, Bernard, 2004k:01052**
Chow, Wei-Liang *see* **Chow, Wei-Liang, 2004f:01043**
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Guccia, Giovan Battista *see* **Guccia, Giovan Battista, 2004a:01041**
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Kish, Leslie *see* **Kish, Leslie, 2004e:01064**
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Rota, Gian-Carlo *see* **Rota, Gian-Carlo, 2004c:01047**
Scheibe, Erhard *see* **Scheibe, Erhard, 2004c:01048**
Shimura, Goro *see* **Shimura, Goro, 2004g:01046a**; **2004g:01046b**; **2004g:01046c** *and* **2004g:01046d**
Correspondence:
Leibniz, Gottfried Wilhelm *see* **Leibniz, Gottfried Wilhelm, 2004f:01045**
Edmund Hlawka ★ Edmund Hlawka. (German) **2004e:01066**
Essays in econometrics: collected papers of Clive W. J. Granger *see* **Granger, Clive W. J., 2004f:01044**
Gian-Carlo Rota on analysis and probability *see* **Rota, Gian-Carlo, 2004c:01047**
Joint statistical papers of Akahira and Takeuchi *see* **Akahira, Masafumi, 2004j:01033**
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Boole, George ★ The laws of thought. **2004i:03001**
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Ehrmann, Jean-Pierre Steiner's theorems on the complete quadrilateral. (English summary)
(Eves, Howard W.) *see* **Fréchet, Maurice, 2004a:57001**
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Fréchet, Maurice (*with* Fan, Ky) ★ Invitation to combinatorial topology. **2004a:57001**
Freyd, Peter J. Abelian categories.
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(Ghysels, Eric) *see* **Granger, Clive W. J., 2004f:62013**
Godement, Roger ★ Analyse mathématique. II. (French) [Mathematical analysis. II] **2004f:00002**
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Lamb, Willis E., Jr. ★ The interpretation of quantum mechanics. **2004e:81009**
Landau, Edmund ★ Grundlagen der Analysis. (German) [Foundations of analysis] **2004m:00001**
(Mehra, Jagdish) *see* **Lamb, Willis E., Jr., 2004e:81009**
(Menger, Karl) *see* **Waismann, Friedrich, 2004a:00012**
(Olivares, J.) *see* **Basic readings in general topology, 2004d:54001**
(Ribenboim, Paulo) *see* **Roquette, Peter, 2004a:01034a**; **2004a:01034b** *and* **2004a:01034c**
Roquette, Peter ★ Collected papers of Peter Roquette. Vol. 1. (German) **2004a:01034a**
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(Sestier, A.) *see* **Basic readings in general topology, 2004d:54001**
Street, Ross H. Cauchy characterization of enriched categories. (English and Italian summaries)
(Swanson, Norman R.) *see* **Granger, Clive W. J., 2004f:62013**
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Waismann, Friedrich ★ Introduction to mathematical thinking. **2004a:00012**
(Watson, Mark W.) *see* **Granger, Clive W. J., 2004f:62013**
Willard, Stephen ★ General topology.

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Roquette, Peter *see* **Roquette, Peter, 2004a:01034a**
Biography:
Lamb, Willis E., Jr. *see* **Lamb, Willis E., Jr., 2004e:81009**
Roquette, Peter *see* **Roquette, Peter, 2004a:01034a**
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01A80 Sociology (and profession) of mathematics

Bergstein, Svend War cannot be calculated. (English summary) (*see* **2004j:00019**)
(Denjoy, Arnaud) *see* **Dugac, Pierre, 2004b:01056**
Dugac, Pierre The "case" of Luzin and French mathematicians. (Russian. English summary) **2004b:01056**
(Ermolaeva, N. S.) *see* **Dugac, Pierre, 2004b:01056**
Guzevich, D. Yu. Scientific school as a form of activity. (Russian. French summary)
Hoàng Tụy Mathematics and development.
Hormigón Blázquez, Mariano On the internationalization of mathematics journals. (Spanish. English and Spanish summaries) **2004e:01067**
Israel, Giorgio Italian mathematics, Fascism and the politics of race. (Italian) (*see* **2004e:00011**)
(Lebesgue, Henri) *see* **Dugac, Pierre, 2004b:01056**
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Ryberg, Jesper Ethics and military research: on the moral responsibility of scientists. (English summary) (*see* **2004j:00019**)
Sánchez Fernández, Carlos Notes on the socio-cultural function of mathematics professors. (Spanish. English and Spanish summaries) **2004b:01057**
(Sierpiński, Wacław) *see* **Dugac, Pierre, 2004b:01056**
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Correspondence:
Lebesgue, Henri–Denjoy, Arnaud *see* **Dugac, Pierre, 2004b:01056**
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Obituary:
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Aaserud, Finn Niels Bohr's political crusade during World War II. (English summary) **2004k:01045**
(Bohr, Niels Henrik David) *see* **Aaserud, Finn, 2004k:01045**
Booß-Bavnbek, Bernhelm (*with* Høyrup, Jens) Mathematics and war: an invitation to revisit. **2004f:01002**
— *see also* **Mathematics and war, 2004j:00019**
Brüning, Jochen Mathematics and Fascism: the case of Berlin. (Italian) (*see* **2004e:00011**)
Dauben, Joseph W. Mathematics, ideology, and the politics of infinitesimals: mathematical logic and nonstandard analysis in modern China. **2004m:03008**
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Fukutomi, Setsuo Mathematics and war in Japan. (English summary) **2004k:01038**
Göhring, Wolf Working within the system. **2004m:01030**
Grossman, Jerrold W. The evolution of the mathematical research collaboration graph. (English summary) **2004c:91079**
(Hardy, G. H.) *see* **Rice, Adrian C., 2004e:01039**
Hildebrandt, Stefan (*with* Lax, Peter D.) ★ Otto Toeplitz. (German) **2004d:01033**
Hodges, Andrew The military use of Alan Turing. (English summary) **2004m:01032**
Høyrup, Jens *see* **Booß-Bavnbek, Bernhelm, 2004f:01002**; **2004j:00019** *and* **Mathematics and war, 2004j:00019**
Kjeldsen, Tinne Hoff New mathematical disciplines and research in the wake of World War II. (English summary) **2004k:01041**
Knuth, Donald E. ★ Things a computer scientist rarely talks about. (English summary) **2004a:00017**
Krantz, Steven G. ★ A mathematician's survival guide. **2004h:00007**
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Makino, Tetu The mathematician K. Ogura and the "Greater East Asia War". (English summary) **2004k:01049**
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Radbruch, Knut Zur Interaktion von Mathematik und Melancholie. (English summary) [On the interaction of mathematics and melancholy] **2004m:01014**
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Sabbagh, Karl ★ The Riemann hypothesis. **2004c:01027**
Segal, Sanford L. ★ Mathematicians under the Nazis. **2004c:01024**
Siegmund-Schultze, Reinhard Military work in mathematics 1914–1945: an attempt at an international perspective. (English summary) **2004k:01044**
Tagliagambe, Silvano Mathematics and culture in Russia. (Italian) (*see* **2004e:00011**)
(Toeplitz, Otto) *see* **Hildebrandt, Stefan, 2004d:01033**
(Turing, Alan) *see* **Hodges, Andrew, 2004m:01032**
Vicente, Jorge Lorenzo *see* **Llombart Palet, José, 2004e:01049**
(Villafañe y Viñals, José María) *see* **Llombart Palet, José, 2004c:01049**
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Correspondence:
Toeplitz, Otto *see* **Hildebrandt, Stefan, 2004d:01033**
Karlskrona ★ Mathematics and war. **2004j:00019**
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Otto Toeplitz *see* **Hildebrandt, Stefan, 2004d:01033**

01A85 Historiography

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Alexander, Amir R. ★ Geometrical landscapes. **2004k:01025**
(Apollonius of Perga) *see* **Fried, Michael N., 2004e:01006**
Chu, Pingyi Remembering our grand tradition: the historical memory of the scientific exchanges between China and Europe, 1600–1800. **2004d:01005**
Fraser, Craig G. The calculus of variations: a historical survey. (*see* **2004h:01005**)
Fried, Michael N. (*with* Unguru, Sabetai) ★ Apollonius of Perga's *Conica*. (English summary) **2004e:01006**
Gingerich, Owen Kepler then and now. **2004d:01013**
Guicciardini, Niccoló Conceptualism and contextualism in the recent historiography of Newton's *Principia*. (English and Italian summaries) **2004k:01026**
(Kepler, Johannes) *see* **Gingerich, Owen, 2004d:01013**
(Newton, Isaac) *see* **Guicciardini, Niccoló, 2004k:01026**
Raftopoulos, Athanassios Cartesian analysis and synthesis. (English summary) **2004c:01015**
Siegmund-Schultze, Reinhard The origins of functional analysis. (*see* **2004h:01005**)
Unguru, Sabetai *see* **Fried, Michael N., 2004e:01006**

01A90 Bibliographic studies

(Abel, Niels Henrik) *see* **Del Centina, Andrea, (2004g:01041)**
Del Centina, Andrea Abel's manuscript in the Libri Collection: their history and their fate. (*see* **2004g:01041**)

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(Abel, Niels Henrik) *see* **Del Centina, Andrea, 2004e:01032; 2004g:01041** *and* **Abel's Parisian manuscript, 2004g:01041**
de Boer, Reint ★ Theory of porous media. **2004d:76098**
Del Centina, Andrea Corrigendum to: "The manuscript of Abel's Parisian memoir found in its entirety" [Historia Math. **29** (2002), no. 1, 65–69; MR 2003e:01019]. **2004e:01032**
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(Del Lungo, Elisabetta) *see* **Abel's Parisian manuscript, 2004g:01041**
Hormigón Blázquez, Mariano On the internationalization of mathematics journals. (Spanish. English and Spanish summaries) **2004e:01067**
(İhsanoğlu, Ekmeleddin) *see* **History of mathematical literature during the Ottoman period, 2004b:01001**
(İzgi, Cevat) *see* **History of mathematical literature during the Ottoman period, 2004b:01001**
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Seneta, Eugene Karamata's characterization theorem, Feller, and regular variation in probability theory. (English summary) **2004c:60006**
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Index:
Tohoku Math. J. Volume index, Vol. 1 (1911/12)–Vol. 49 (1943). **2004h:00005**

01A99 Miscellaneous topics

(Angel, Leonard) *see* **Pérez Laraudogoitia, Jon**
Bychkov, S. N. How did numbers become abstract? (Russian. English summary) **2004a:01045**
Malet, Antoni Kepler and the telescope. (English summary) **2004h:01042**
Pérez Laraudogoitia, Jon On a (supposedly) plausible extension of Newtonian collision dynamics. Comment on: "Zeno's arrow, Newton's mechanics, and Bell's inequalities" [British J. Philos. Sci. **53** (2002), no. 2, 161–182] by L. Angel. (English summary)
Puu, Tönu A random walk through science. Speech by Tönu Puu at Odense University, 25 August 2002.
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Scarpello, Giovanni Mingari (*with* Ritelli, Daniele) A historical outline of the theorem of implicit functions. (English and Spanish summaries) **2004g:01049**
Schärlig, Alain ★ Compter avec des jetons. (French) [Counting with jetons] **2004h:01043**
Weinberg, Steven Afterword. How great equations survive. (*see* **2004g:00013**)

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(Assayag, Gérard) *see* **Mathematics and music, 2004a:00014**
Coutinho, S. C. (*with* McConnell, John Coulter) The quest for quotient rings (of noncommutative Noetherian rings). **2004d:16001**
Cribeiro, Josefina *see* **Roldán Inguanzo, Rita**
Durand-Richard, Marie-José The formalization of logic and the issue of meaning. (*see* **2004a:00014**)
(Emmer, Michele) *see* **M. C. Escher's legacy, 2004e:00001**
(Escher, M. C.) *see* **M. C. Escher's legacy, 2004e:00001**
Falter, Holger The influence of mathematics on the development of structural form. (*see* **2004f:00011**)
(Feichtinger, Hans Georg) *see* **Mathematics and music, 2004a:00014**
Fukuda, Tomoko *see* **Takeda, Masayuki et al., 2004b:68140**
Lacki, Jan Styles of physical thinking versus mathematical ones. **2004c:00005**
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Nievergelt, Yves How (not) to solve quadratic equations. **2004g:65067**
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Roldán Inguanzo, Rita (*with* Cribeiro, Josefina) Training intuition in higher mathematics. (Spanish. English and Spanish summaries)
(Schattschneider, Doris) *see* **M. C. Escher's legacy, 2004e:00001**
Scimemi, Benedetto The use of mechanical devices and numerical algorithms in the 18th century for the equal temperament of the musical scale. (*see* **2004a:00014**)
Takeda, Masayuki (*with* Matsumoto, Tetsuya; Fukuda, Tomoko; Nanri, Ichiro) Discovering characteristic expressions in literary works. (English summary) **2004b:68140**

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Lisbon ★ Mathematics and music. **2004a:00014**
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03–XX Mathematical logic and foundations

03–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Jacquette, Dale) *see* **Companion to philosophical logic**, **2004e:03001**

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Companion to philosophical logic ★ A companion to philosophical logic. **2004e:03001**

03–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bonevac, Daniel ★ Deduction. **2004a:03001**
(Corsi, Giovanna) *see* **Lavrov, I. A.**, **2004b:03001**
van Dalen, Dirk ★ Logic and structure. **2004m:03001**
(Dubrovskiĭ, V. N.) *see* **Shen′, A. Kh.**, **2004b:03002**
Forster, Thomas ★ Logic, induction and sets. **2004g:03001**
Goldfarb, Warren ★ Deductive logic. **2004h:03001**
Lavrov, I. A. (*with* Maksimova, Larisa) ★ Problems in set theory, mathematical logic and the theory of algorithms. **2004b:03001**
Lepore, Ernest ★ Meaning and argument. **2004j:03001**
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(Shekhtman, V. B.) *see* **Lavrov, I. A.**, **2004b:03001**
Shen′, A. Kh. (*with* Vereshchagin, Nikolai K.) ★ Computable functions. **2004b:03002**
Stillwell, John C. The continuum problem. (Hungarian. English summary)
Tourlakis, George ★ Lectures in logic and set theory. Vol. 1. **2004a:03002**
— ★ Lectures in logic and set theory. Vol. 2. **2004a:03003**
Vereshchagin, Nikolai K. *see* **Shen′, A. Kh.**, **2004b:03002**

Items with secondary classifications in 03–01

Fitting, Melvin ★ Types, tableaus, and Gödel's God. **2004m:03002**
Hehner, Eric C. R. From Boolean algebra to unified algebra.
Jech, Thomas ★ Set theory. (English summary) **2004g:03071**
Khoussainov, Bakhadyr (*with* Nerode, Anil) ★ Automata theory and its applications. (English summary) **2004e:03073**
Nerode, Anil *see* **Khoussainov, Bakhadyr**, **2004e:03073**

03–02 Research exposition (monographs, survey articles)

Cohen, Paul R. The discovery of forcing. **2004e:03002**
Eklof, Paul C. The affinity of set theory and abelian group theory. (English summary) **2004e:03003**
Fitting, Melvin ★ Types, tableaus, and Gödel's God. **2004m:03002**
Gabbay, Dov M. (*with* Kurucz, Agnes; Wolter, Frank; Zakhar′yashchev, M. V.) ★ Many-dimensional modal logics: theory and applications. **2004m:03003**
Henson, C. Ward (*with* Iovino, José) Ultraproducts in analysis. **2004d:03001**
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Marcja, Annalisa (*with* Toffalori, Carlo) ★ A guide to classical and modern model theory. **2004f:03001**
Newelski, Ludomir An essay on model theory. (English summary) **2004e:03004**
Polkowski, Lech ★ Rough sets. **2004e:03005**
Prest, Mike Model theory for algebra. (English summary) **2004k:03001**
Shelah, Saharon Logical dreams. (English summary) **2004a:03004**
Toffalori, Carlo *see* **Marcja, Annalisa**, **2004f:03001**
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Font, Josep Maria (*with* Jansana, Ramon; Pigozzi, Don L.) A survey of abstract algebraic logic. **2004m:03241**
Frias, Marcelo Fabián ★ Fork algebras in algebra, logic and computer science. (English summary) **2004b:03112**
(Hansson, Sven Ove) *see* **Arlo-Costa, H.**
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Jech, Thomas ★ Set theory. (English summary) **2004g:03071**
Kanamori, Akihiro ★ The higher infinite. **2004f:03092**
Kern-Isberner, Gabriele ★ Conditionals in nonmonotonic reasoning and belief revision. **2004m:68001**
Lawvere, F. William (*with* Rosebrugh, Robert) ★ Sets for mathematics. **2004b:03094**
Lindström, Per ★ Aspects of incompleteness. **2004i:03095**
Pigozzi, Don L. *see* **Font, Josep Maria et al.**, **2004m:03241**
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(Sacks, Gerald E.) *see* **Mathematical logic in the 20th century**, **2004k:03005**
Yanofsky, Noson S. A universal approach to self-referential paradoxes, incompleteness and fixed points. (English summary) **2004h:03116**

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03–03 Historical (must also be assigned at least one classification number from Section 01)

Anderson, David J. (*with* Zalta, Edward N.) Frege, Boolos, and logical objects. (English summary) **2004m:03004**
(Aristotle) *see* **Waragai, Toshiharu**, **2004a:03006**; **Nortmann, Ulrich**, **2004d:03006**; **Schiaparelli, Annamaria**, **2004f:03003**; **Corcoran, John**, **2004m:03006**; **Weidemann, Hermann**, **2004m:03013** *and* **Crivelli, Paolo**
van Atten, Mark Brouwer, as never read by Husserl. (English summary) **2004m:03005**
Badesa, Calixto ★ The birth of model theory. **2004k:03002**
Bar-Elli, Gilead Sense and objectivity in Frege's logic. (*see* **2004e:03016**)
Bazhanov, V. A. I. E. Orlov—logician, philosopher, and scientist. Peculiarities of scientific search. (Russian. English summary) **2004d:03002**
Beaney, Michael Russell and Frege. (*see* **2004i:03003**)
(Beccaria, Cesare) *see* **Nuzzetti, Modestino**
(Behmann, Heinrich) *see* **Mancosu, Paolo**, **2004b:03003**
Bellotti, Luca Tarski on logical notions. (English summary) **2004d:03003**
van Benthem, Johan Fifty years: changes and constants in logic. (*see* **2004j:03005**)
(Bernays, Paul) *see* **Mancosu, Paolo**, **2004b:03003**
Bocheński, Josef M. ★ Formale Logik. [Formal logic]
Boffa, M. Théorie des ensembles et dualité. [Set theory and duality] **2004h:03002**
(Bolzano, Bernard) *see* **Rusnock, Paul**
Boole, George ★ The laws of thought. **2004i:03001**
— *see also* **Corcoran, John**, **2004m:03006**
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03Bxx General logic

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03B22 Abstract deductive systems

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03B25 Decidability of theories and sets of sentences [see also 11U05, 12L05, 20F10]

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03B30 Foundations of classical theories (including reverse mathematics) [see also 03F35]

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03B35 Mechanization of proofs and logical operations [see also 68T15]

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03B53 Logics admitting inconsistency (paraconsistent logics, discussive logics, etc.)

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03C13 Finite structures [see also 68Q15, 68Q19]

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03C15 Denumerable structures

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03C40 Interpolation, preservation, definability

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03C45 Classification theory, stability and related concepts

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03C64 Model theory of ordered structures; o-minimality

Belegradek, Oleg (*with* Verbovskiy, Viktor; Wagner, Frank O.) Coset-minimal groups. (English summary) **2004i:03062**
Berarducci, Alessandro (*with* Otero, Margarita) Transfer methods for o-minimal topology. (English summary) **2004h:03082**
Edmundo, Mário J. Solvable groups definable in o-minimal structures. (English summary) **2004j:03048**
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Kulpeshov, B. Sh. The convexity rank and orthogonality in weakly o-minimal theories. (Russian. English, Russian and Kazakh summaries) **2004m:03142**
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03C65 Models of other mathematical theories

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03C68 Other classical first-order model theory

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03C70 Logic on admissible sets

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03C75 Other infinitary logic

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Kaila, Risto On almost sure elimination of numerical quantifiers. (English summary) **2004a:03038**
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Krzeszczakowski, Łukasz Pebble games on trees. (English summary) **2004m:68097**
Laskowski, Michael C. (*with* Shelah, Saharon) Karp complexity and classes with the independence property. (English summary) **2004c:03043**
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Weinstein, Scott Logic in finite structures: definability, complexity, and randomness. (*see* **2004e:03001**)

03C80 Logic with extra quantifiers and operators [see also 03B42, 03B44, 03B45, 03B48]

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Janssen, Theo M. V. Independent choices and the interpretation of IF logic. (English summary) **2004c:03050**
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Kaila, Risto On almost sure elimination of numerical quantifiers. (English summary) **2004a:03038**
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03C85 Second- and higher-order model theory

Items with secondary classifications in 03C85

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Eiter, Thomas (*with* Gottlob, Georg; Schwentick, Thomas) Second-order logic over strings: regular and non-regular fragments. (English summary) **2004a:68041**
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Knapik, Teodor (*with* Niwiński, Damian; Urzyczyn, Paweł) Higher-order pushdown trees are easy. (English summary) **2004a:03020**
Kuske, Dietrich Recognizable sets of N-free pomsets are monadically axiomatizable. (English summary) **2004b:03050**
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Nerode, Anil *see* **Khoussainov, Bakhadyr, 2004e:03073**
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03C90 Nonclassical models (Boolean-valued, sheaf, etc.)

Items with secondary classifications in 03C90

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Król, Jerzy[2] Set theoretical forcing in quantum mechanics and AdS/CFT correspondence. (English summary) **2004m:81015**
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03C95 Abstract model theory

Items with secondary classifications in 03C95

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— Discouraging results for ultraimaginary independence theory. (English summary) **2004f:03063**
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03C98 Applications of model theory [see also 03C60]

van den Dries, Lou Generating the greatest common divisor, and limitations of primitive recursive algorithms. (English summary) **2004e:03072**
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Bie, Rong Fang *see* **Tong, Xue, 2004h:12004**
Facchini, Alessandro ★ "Maison Hilbert" : un très joli édifice sans toit ni sol. (French) ["The House of Hilbert": a very pretty building with neither a roof nor a floor] **2004j:03002**
Gordon, Julia (*with* Hales, Thomas C.) Virtual transfer factors. (English summary) **2004c:11084**
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— (*with* van der Steeg, B. J.) On the Maćkowiak-Tymchatyn theorem. (English summary) **2004c:54030**
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Nešetřil, Jaroslav (*with* Shelah, Saharon) On the order of countable graphs. (English summary) **2004e:03070**
Păsărescu, Angela Nullstellensatz for real fields using model theory. (English summary)
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Tong, Xue (*with* Bie, Rong Fang) The α type and its applications. (Chinese. English and Chinese summaries) **2004h:12004**

03C99 None of the above, but in this section

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Items with secondary classifications in 03C99

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03Dxx Computability and recursion theory

Items with secondary classifications in 03Dxx

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03D03 Thue and Post systems, etc.

Halava, Vesa (*with* Harju, Tero) Infinite solutions of marked post correspondence problem. (English summary) (*see* **2004j:00032**)
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Rudnicki, Piotr (*with* Woeginger, Gerhard J.) The Post correspondence problem over a unary alphabet. (English summary) **2004d:03087**
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Halava, Vesa (*with* Harju, Tero; Karhumäki, Juhani) Decidability of the binary infinite Post correspondence problem. (English summary) **2004g:03015**
Harju, Tero *see* **Halava, Vesa et al., 2004g:03015**
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Kudlek, Manfred (*with* Rogozhin, Yurii) Small universal Turing and circular Post machines. (English summary) **2004f:03075**
Marcinkowski, Jerzy (*with* Pacholski, Leszek) Thue trees. (English summary) **2004d:03022**
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03D05 Automata and formal grammars in connection with logical questions [see also 68Q45, 68Q70, 68R15]

Bodlaender, Hans L. (*with* Dinneen, Michael J.; Khoussainov, Bakhadyr) Relaxed update and partition network games. (English summary) **2004h:03084**
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Cachat, Thierry Two-way tree automata solving pushdown games.
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Carton, Olivier (*with* Thomas, Wolfgang) The monadic theory of morphic infinite words and generalizations. (English summary) **2004d:03088**
Choffrut, Christian (*with* Grigorieff, Serge) The theory of rational relations on transfinite strings. **2004k:03076**
Dal Zilio, Silvano (*with* Lugiez, Denis) XML schema, tree logic and sheaves automata. (English summary)
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Finkel, Olivier An effective extension of the Wagner hierarchy to blind counter automata. (English summary) **2004b:03049**
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Hütten, Patrick *see* **Wallmeier, Nico et al., (2004j:68014)**

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Khoussainov, Bakhadyr (*with* Nerode, Anil) ★ Automata theory and its applications. (English summary) **2004e:03073**
— (*with* Kowalski, Tomasz[1]) Games on graphs: automata, structure, and complexity. **2004m:03146**
— (*with* Rubin, Sasha) Automatic structures: overview and future directions. (English summary) **2004f:03074**
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Kuske, Dietrich Recognizable sets of N-free pomsets are monadically axiomatizable. (English summary) **2004b:03050**
Küsters, Ralf Memoryless determinacy of parity games.
Latour, Louis *see* **Boigelot, Bernard**, (**2004j:68012**)
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Ly, Olivier Automatic graphs and D0L-sequences of finite graphs. (English summary) **2004g:03061**
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Neven, Frank Automata, logic, and XML. (English summary) **2004m:03147**
— (*with* Schwentick, Thomas) On the power of tree-walking automata. (English summary) **2004g:03062**
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Reinhardt, Klaus The complexity of translating logic to finite automata.
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Rubin, Sasha *see* **Khoussainov, Bakhadyr**, **2004f:03074**
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— Finite semigroups and the logical description of regular languages. (English summary) **2004j:03049**
Tantau, Till Weak cardinality theorems for first-order logic (extended abstract). (English summary)
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Autebert, Jean-Michel (*with* Latapy, Matthieu; Schwer, Sylviane R.) Le treillis des chemins de Delannoy. (English and French summaries) [The lattice of Delannoy paths] **2004d:05008**
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Bartzis, Constantinos (*with* Bultan, Tevfik) Efficient symbolic representations for arithmetic constraints in verification. (English summary) **2004h:68077**
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Bernet, Julien (*with* Janin, David; Walukiewicz, Igor) Permissive strategies: from parity games to safety games. (English summary) **2004j:68112**
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03D20 Recursive functions and relations, subrecursive hierarchies

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03D35 Undecidability and degrees of sets of sentences

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Halava, Vesa (*with* Harju, Tero) An undecidability result concerning periodic morphisms. (English summary) **2004a:03019**
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03D40 Word problems, etc. [see also 06B25, 08A50, 20F10, 68R15]

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Mundici, Daniele Simple Bratteli diagrams with a Gödel-incomplete C^*-equivalence problem. (English summary) **2004k:46103**
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03D45 Theory of numerations, effectively presented structures [see also 03C57; for intuitionistic and similar approaches see 03F55]

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Korovina, Margarita Computational aspects of Σ-definability over the real numbers without the equality test. (English summary) **2004m:03160**
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Yoshinobu, Yasuo Approachability and games on posets. (English summary) **2004g:03080**
Zakrzewski, Piotr Fubini properties for filter-related σ-ideals. (English summary) **2004j:54046**
Zhou, Jin Yuan[1] *see* **Dow, Alan**, **2004c:03068**

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Studies in relative consistency proofs with particular emphasis on set-theoretic methods
★ Shūgōronteki shuhō ni yoru sōtaiteki mumujunsei no shōmei no shūhen. (Japanese) [Studies in relative consistency proofs with particular emphasis on set-theoretic methods]

03E10 Ordinal and cardinal numbers

Benci, Vieri (*with* Di Nasso, Mauro) Numerosities of labelled sets: a new way of counting. (English summary) **2004b:03065**
Di Nasso, Mauro *see* **Benci, Vieri**, **2004b:03065**
Gitik, Moti The power set function. (English summary) **2004d:03097**
Shelah, Saharon You can enter Cantor's paradise! (English summary) **2004a:03052**
Torres Falcón, Yolanda Powers of singular cardinals. (Spanish) **2004c:03058**

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Fleissner, William G. Normal subspaces of products of finitely many ordinals. (English summary) **2004c:54017**
Forster, Thomas (*with* Truss, J. K.) Non-well-foundedness of well-orderable power sets. (English summary) **2004e:03083**
Hirata, Yasushi (*with* Kemoto, Nobuyuki) Separating by G_0-sets in finite powers of ω_1. (English summary) **2004f:54006**
Kemoto, Nobuyuki *see* **Hirata, Yasushi**, **2004f:54006**
Mycielski, Jan Axioms which imply GCH. (English summary) **2004h:03104**
Sergeev, Yaroslav D. ★ Arithmetic of infinity. **2004m:03027**
Skupień, Zdzisław The Cantor-Bernstein theorem: known-unknown proofs. (Polish)
Truss, J. K. *see* **Forster, Thomas**, **2004e:03083**

03E15 Descriptive set theory [see also 28A05, 54H05]

Andretta, Alessandro (*with* Martin, Donald A.) Borel-Wadge degrees. (English summary) **2004d:03098**
Bartoszynski, Tomek (*with* Shelah, Saharon) Strongly meager sets of size continuum. (English summary) **2004m:03170**
— (*with* Nowik, Andrzej; Weiss, Tomasz) Strongly meager sets can be quite big. (English summary) **2004m:03171**
Becker, Howard The restriction of a Borel equivalence relation to a sparse set. (English summary) **2004h:03099**
Bradfield, Julian C. Fixpoints, games and the difference hierarchy. (English summary) **2004g:03074**
Camerlo, Riccardo (*with* Darji, Udayan B.) Construction of Borel inseparable coanalytic sets. (English summary) **2004d:03099**
Cichoń, Jacek (*with* Kharazishvili, A.) On ideals with projective bases. (English summary) **2004b:03066**
— (*with* Jasiński, Andrzej) A note on algebraic sums of subsets of the real line. (English summary) **2004h:03100**
Darji, Udayan B. (*with* Keleti, Tamás) Covering $\mathbb{R}$ with translates of a compact set. (English summary) **2004d:03100**
— *see also* **Camerlo, Riccardo**, **2004d:03099**
Debs, Gabriel (*with* Saint Raymond, Jean) Arbres distingués, bi-arbres et théorèmes de relèvement. (English and French summaries) [Distinguished trees, double-trees and lifting theorems] **2004d:03101**
— (*with* Saint Raymond, Jean) Compact covering mappings between Borel sets and the size of constructible reals. (English summary) **2004k:03089**
Duparc, Jacques The Steel hierarchy of ordinal valued Borel mappings. (English summary) **2004a:03053**
Friedman, Sy D. (*with* Schindler, Ralf) Universally Baire sets and definable well-orderings of the reals. (English summary) **2004m:03172**
Gao, Su (*with* Kechris, Alexander S.) On the classification of Polish metric spaces up to isometry. (English summary) **2004b:03067**
Hjorth, Greg The isomorphism relation on countable torsion free abelian groups. (English summary) **2004b:03068**
— A dichotomy theorem for turbulence. **2004b:03069**
Jackson, Steve (*with* May, Russell) The strong partition relation on ω_1 revisited. (English summary) **2004j:03057**
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Kanoveĭ, V. G. (*with* Reeken, Michael) Some new results on the Borel irreducibility of equivalence relations. (Russian. Russian summary) **2004c:03060**
— (*with* Reeken, Michael) A theorem on ROD-hypersmooth equivalence relations in the Solovay model. (English summary) **2004c:03059**
— (*with* Lyubetskiĭ, V. A.) On some classical problems in descriptive set theory. (Russian. Russian summary) **2004m:03173**
Kechris, Alexander S. Actions of Polish groups and classification problems. **2004b:03070**
— *see also* **Gao, Su**, **2004b:03067**
Keleti, Tamás *see* **Darji, Udayan B.**, **2004d:03100**
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Lyubetskiĭ, V. A. *see* **Kanoveĭ, V. G.**, **2004m:03173**
Martin, Donald A. *see* **Andretta, Alessandro**, **2004d:03098**
May, Russell *see* **Jackson, Steve**, **2004j:03057**
Medvedev, Alice Determinacy of games. **2004k:03090**
Nowik, Andrzej (*with* Weiss, Tomasz) Some remarks on totally imperfect sets. (English summary) **2004k:03091**
— *see also* **Bartoszynski, Tomek et al.**, **2004m:03171**
Reeken, Michael *see* **Kanoveĭ, V. G.**, **2004c:03059** *and* **2004c:03060**
Saint Raymond, Jean *see* **Debs, Gabriel**, **2004d:03101** *and* **2004k:03089**
Schindler, Ralf *see* **Friedman, Sy D.**, **2004m:03172**
Selivanov, V. L. Wadge degrees of ω-languages of deterministic Turing machines. (English summary) **2004e:03080**
Shelah, Saharon *see* **Bartoszynski, Tomek**, **2004m:03170**
Solecki, Sławomir Translation invariant ideals. (English summary) **2004g:03075**
Thomas, Simon R. Superrigidity and countable Borel equivalence relations. (English summary) **2004e:03081**
— The virtual isomorphism problem for finitely generated groups. (English summary) **2004g:03076**
Weiss, Tomasz *see* **Nowik, Andrzej**, **2004k:03091** *and* **Bartoszynski, Tomek et al.**, **2004m:03171**
Zakrzewski, Piotr On a construction of universally small sets. (English summary) **2004c:03061**

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Andretta, Alessandro Equivalence between Wadge and Lipschitz determinacy. (English summary) **2004g:03082**
Argyros, Spiros A. (*with* Godefroy, Gilles; Rosenthal, Haskell P.) Descriptive set theory and Banach spaces. (English summary) **2004g:46002**
Asperó, David On simple partitions of $[\kappa]^\kappa$. (English summary) **2004i:03070**
Balcerzak, Marek (*with* Rzepecka, J.) On Marczewski-Burstin representations of algebras and ideals. (English summary) **2004j:54045**
Cachat, Thierry (*with* Duparc, Jacques; Thomas, Wolfgang) Solving pushdown games with a Σ_3 winning condition. (English summary) **2004m:03144**
Duparc, Jacques *see* **Cachat, Thierry et al.**, **2004m:03144**
Edgar, G. A. (*with* Miller, Chris) Borel subrings of the reals. (English summary) **2004d:28017**
Elekes, Márton Measurable envelopes, Hausdorff measures and Sierpiński sets. (English summary) **2004m:28025**
Finkel, Olivier Undecidability of topological and arithmetical properties of infinitary rational relations. (English summary) **2004i:03063**
Freivalds, Rūsiņš Mārtiņš (*with* Smith, Carl H.) Category, measure, inductive inference: a triality theorem and its applications. (English summary) **2004b:68074**
Godefroy, Gilles *see* **Argyros, Spiros A. et al.**, **2004g:46002**
Gutiérrez García, J. (*with* de Prada Vicente, M. A.; Šostak, Alexander P.) A unified approach to the concept of fuzzy L-uniform space.
Halbeisen, Lorenz Making doughnuts of Cohen reals. (English summary) **2004b:03080**
Hirschorn, James Summable gaps. (English summary) **2004c:03056**
Jordan, Francis Ideals of compact sets associated with Borel functions. (English summary) **2004b:54063**
Kanoveĭ, V. G. (*with* Reeken, Michael) Borel and countably determined reducibility in nonstandard domain. (English summary) **2004k:03129**
Kubiś, Wiesław (*with* Shelah, Saharon) Analytic colorings. (English summary) **2004j:03055**
Kysiak, Marcin Another note on duality between measure and category. (English summary) **2004j:28001**
Leung, Denny H. (*with* Tang, Wee-Kee) Ordinal indices and l^1-spreading models. (English summary) **2004g:46038**
— (*with* Tang, Wee-Kee) Functions of Baire class one. (English summary) **2004k:26005**
Martin, Eric (*with* Sharma, Arun; Stephan, Frank) Learning, logic, and topology in a common framework. (English summary)
Martin, Keye Ideal models of spaces. (English summary) **2004j:54009**
— The regular spaces with countably based models. (English summary) **2004i:54041**
Michalewski, Henryk Condensations of projective sets onto compacta. (English summary) **2004d:54015**
Miller, Chris *see* **Edgar, G. A.**, **2004d:28017**
Moschovakis, Joan Rand Classical and constructive hierarchies in extended intuitionistic analysis. (English summary) **2004i:03101**
Odell, Edward On subspaces, asymptotic structure, and distortion of Banach spaces; connections with logic. **2004b:46016**
de Prada Vicente, M. A. *see* **Gutiérrez García, J. et al.**

Reeken, Michael *see* **Kanovei, V. G., 2004k:03129**
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Rzepecka, J. *see* **Balcerzak, Marek, 2004j:54045**
Schindler, Ralf $P \neq NP$ for infinite time Turing machines. (English summary) **2004m:03164**
Sharma, Arun *see* **Martin, Eric et al.**
Shelah, Saharon *see* **Kubiś, Wiesław, 2004j:03055**
Smith, Carl H. *see* **Freivalds, Rūsiņš Mārtiņš, 2004b:68074**
Šostak, Alexander P. *see* **Gutiérrez García, J. et al.**
Stephan, Frank *see* **Martin, Eric et al.**
Tang, Wee-Kee *see* **Leung, Denny H., 2004g:46038** *and* **2004k:26005**
Thomas, Simon R. The classification problem for torsion-free abelian groups of finite rank. **2004b:20081**
Thomas, Wolfgang *see* **Cachat, Thierry et al., 2004m:03144**
Uzcátegui A., Carlos E. On the complexity of subspaces of S_ω. (English summary) **2004a:54043**
Welch, Philip David On revision operators. (English summary) **2004c:03055**
Zakrzewski, Piotr Fubini properties for filter-related σ-ideals. (English summary) **2004j:54046**

03E17 Cardinal characteristics of the continuum

Brendle, Jörg (*with* Shelah, Saharon) Evasion and prediction. IV. Strong forms of constant prediction. (English summary) **2004k:03092**
– (*with* Losada, Maria) The cofinality of the infinite symmetric group and groupwise density. (English summary) **2004m:03174**
– The almost-disjointness number may have countable cofinality. (English summary) **2004c:03062**
Eliaš, Peter Covering for category and trigonometric thin sets. (English summary) **2004d:03102**
Kada, Masaru Block branching Miller forcing and covering numbers for prediction. (English summary) **2004c:03063**
Kamo, Shizuo Cardinal invariants associated with some combinatorial statements. (English summary)
Losada, Maria *see* **Brendle, Jörg, 2004m:03174**
Shelah, Saharon (*with* Zapletal, Jindřich) Duality and the PCF theory. (English summary) **2004c:03064**
– (*with* Spasojević, Zoran) Cardinal invariants $\mathfrak{b}_\kappa$ and $\mathfrak{t}_\kappa$. (English summary) **2004f:03087**
– (*with* Tsaban, Boaz) Critical cardinalities and additivity properties of combinatorial notions of smallness. (English summary) **2004j:03058**
– *see also* **Brendle, Jörg, 2004k:03092**
Spasojević, Zoran *see* **Shelah, Saharon, 2004f:03087**
Tsaban, Boaz *see* **Shelah, Saharon, 2004j:03058**
Yorioka, Teruyuki The cofinality of the strong measure zero ideal. (English summary) **2004b:03071**
Zapletal, Jindřich Isolating cardinal invariants. (English summary) **2004f:03088**
– *see also* **Shelah, Saharon, 2004c:03064**

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Boffa, M. Théorie des ensembles et dualité. [Set theory and duality] **2004h:03002**
Ciesielski, Krzysztof² (*with* Pawlikowski, Janusz) Covering property axiom $\mathrm{CPA}_{\mathrm{cube}}$ and its consequences. (English summary) **2004b:03076**
– (*with* Millán, Andrés; Pawlikowski, Janusz) Uncountable γ-sets under axiom $\mathrm{CPA}^{\mathrm{game}}_{\mathrm{cube}}$. (English summary) **2004b:03077**
Garcia-Ferreira, S. (*with* Tomita, Artur Hideyuki) Countably compact groups and p-limits. (English summary) **2004k:54046**
Geschke, Stefan (*with* Kojman, Menachem; Kubiś, Wiesław; Schipperus, R.) Convex decompositions in the plane and continuous pair colorings of the irrationals. (English summary) **2004f:52001**
Kojman, Menachem *see* **Geschke, Stefan et al., 2004f:52001**
Kubiś, Wiesław *see* **Geschke, Stefan et al., 2004f:52001**
Matet, Pierre (*with* Pawlikowski, Janusz) Q-pointness, P-pointness and feebleness of ideals. (English summary) **2004c:03057**
Millán, Andrés *see* **Ciesielski, Krzysztof² et al., 2004b:03077**
Pawlikowski, Janusz *see* **Ciesielski, Krzysztof² et al., 2004b:03076**; **2004b:03077** *and* **Matet, Pierre, 2004c:03057**
Schipperus, R. *see* **Geschke, Stefan et al., 2004f:52001**
Steprāns, Juris The uniformity invariants of the ideal of null sets in separable metric spaces. (English summary) **2004k:03098**
Tomita, Artur Hideyuki *see* **Garcia-Ferreira, S., 2004k:54046**
Yatabe, Shunsuke Iterated forcing indestructibility of MAD families. (Japanese)
Yorioka, Teruyuki Forcings with the countable chain condition and the covering number of the Marczewski ideal. (English summary) **2004g:03073**

03E20 Other classical set theory (including functions, relations, and set algebra)

Boudabbous, Youssef La 5-reconstructibilité et l'indécomposabilité des relations binaires. (English summary) [5-reconstructibility and indecomposability of binary relations] **2004b:03072**
Bryll, Grzegorz (*with* Sochacki, Robert) Certain classes of elimination operators.
Dammak, Jamel Caractérisation des relations binaires finies d-demi-reconstructibles. (English summary) [Characterization of d-half-reconstructible finite binary relations] **2004d:03103**
Georgatos, Konstantinos On indistinguishability and prototypes. (English summary) **2004m:03175**
Hazen, A. P. (*with* Humberstone, I. L.) Similarity relations and the preservation of solidity. (English summary) **2004j:03059**
Humberstone, I. L. *see* **Hazen, A. P., 2004j:03059**
Marcus, Solomon Tolerance multisets. (English summary) (*see* **2004k:68009**)
Mi, Hong-hai (*with* Yan, Guang-xia) The properties of the hyper relation $\mathscr{R}_i$. (English summary)
Savel'ev, D. I. On the isomorphism of relations embedded into each other. (Russian. Russian summary) **2004i:03072**
Sochacki, Robert *see* **Bryll, Grzegorz**
Syropoulos, Apostolos Mathematics of multisets. (English summary) (*see* **2004k:68009**)
Tzouvaras, Athanassios Positive set-operators of low complexity. (English summary) **2004c:03065**
Yan, Guang-xia *see* **Mi, Hong-hai**

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Diasamidze, I. Ya. *see* **Makharadze, Sh. I., 2004k:20136**
Diasamidze, Ya. I. (*with* Sirabidze, T. T.) Complete semigroups of binary relations determined by three-element X-chains. **2004k:20132**
Duparc, Jacques The Steel hierarchy of ordinal valued Borel mappings. (English summary) **2004a:03053**
Gerasin, S. N. (*with* Sklyar, E. A.; Shlyakhov, V. V.) On a property of tolerance relations. (Russian. English summary)
Goguadze, D. F. On the concept of a semiring of sets. (Russian. Russian summary) **2004i:28003**
Hazim-Sharif, Walied General theorem on p-inextensiveness of bivalent tables (bipartite graph) with two columns. (English summary) **2004a:05031**
Makharadze, Sh. I. (*with* Diasamidze, I. Ya.) One class of complete semigroups of binary relations. **2004k:20136**
Sauer, Norbert Canonical vertex partitions. (English summary) **2004m:03169**
Shlyakhov, V. V. *see* **Gerasin, S. N. et al.**
Sirabidze, T. T. *see* **Diasamidze, Ya. I., 2004k:20132**
Sklyar, E. A. *see* **Gerasin, S. N. et al.**

03E25 Axiom of choice and related propositions

Cichoń, Jacek Some remarks about two definitions of continuity. (English summary) **2004e:03082**
De la Cruz, Omar (*with* Hall, Eric Jonathan; Howard, Paul; Keremedis, Kyriakos; Rubin, Jean E.) Products of compact spaces and the axiom of choice. (English summary) **2004b:03073**
– (*with* Hall, Eric Jonathan; Howard, Paul; Keremedis, Kyriakos; Rubin, Jean E.) Products of compact spaces and the axiom of choice. II. (English summary) **2004b:03074**
– (*with* Hall, Eric Jonathan; Howard, Paul; Keremedis, Kyriakos; Rubin, Jean E.) Metric spaces and the axiom of choice. (English summary) **2004g:03077**
Forster, Thomas (*with* Truss, J. K.) Non-well-foundedness of well-orderable power sets. (English summary) **2004e:03083**
– Finite-to-one maps. (English summary) **2004k:03093**
Gutierres, Gonçalo Sequential topological conditions in $\mathbb{R}$ in the absence of the axiom of choice. (English summary) **2004c:03066**
Hall, Eric Jonathan *see* **De la Cruz, Omar et al., 2004b:03073**; **2004b:03074** *and* **2004g:03077**
Howard, Paul *see* **De la Cruz, Omar et al., 2004b:03073**; **2004b:03074** *and* **2004g:03077**
Keremedis, Kyriakos The failure of the axiom of choice implies unrest in the theory of Lindelöf metric spaces. (English summary) **2004a:03054**
– (*with* Tachtsis, Eleftherios) Choice principles for special subsets of the real line. (English summary) **2004g:03078**
– *see also* **De la Cruz, Omar et al., 2004b:03073**; **2004b:03074** *and* **2004g:03077**
Mulvey, Christopher J. On the geometry of choice.
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Shelah, Saharon (*with* Soifer, Alexander) Axiom of choice and chromatic number of the plane. **2004g:03079**
Soifer, Alexander *see* **Shelah, Saharon, 2004g:03079**
Tachtsis, Eleftherios *see* **Keremedis, Kyriakos, 2004g:03078**
Truss, J. K. *see* **Forster, Thomas, 2004e:03083**

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Andretta, Alessandro Absoluteness theorems in set theory. I. (Italian. Italian summary) **2004f:03089**
Banaschewski, Bernhard (*with* Pultr, Aleš) A constructive view of complete regularity. (English summary) **2004f:54022**
Cantini, Andrea The axiom of choice and combinatory logic. (English summary) **2004k:03028**
Coquand, Thierry Compact spaces and distributive lattices. (English summary) **2004e:54007**
Forster, Thomas ZF + "Every set is the same size as a wellfounded set". (English summary) **2004a:03060**
Hall, Eric Jonathan A characterization of permutation models in terms of forcing. (English summary) **2004k:03096**
Jachymski, Jacek General solutions of two functional inequalities and converses to contraction theorems. (English summary) **2004e:47090**
Jackson, Steve (*with* May, Russell) The strong partition relation on ω_1 revisited. (English summary) **2004j:03057**
Jeřábek, Emil A note on Grzegorczyk's logic. (English summary) **2004m:03076**
Krivine, Jean-Louis Dependent choice, 'quote' and the clock. **2004m:03057**
Leonesi, Stefano (*with* Toffalori, Carlo; Tordini, Samanta) Mathematics, miracles and paradoxes. (Italian) **2004d:01022**
Libert, Thierry ZF and the axiom of choice in some paraconsistent set theories. (English summary) **2004m:03100**
May, Russell *see* **Jackson, Steve, 2004j:03057**
Moschovakis, Joan Rand Classical and constructive hierarchies in extended intuitionistic analysis. (English summary) **2004i:03101**
Paulson, Lawrence C. The relative consistency of the axiom of choice mechanized using Isabelle/ZF. (English summary) **2004m:03046**
Pultr, Aleš *see* **Banaschewski, Bernhard, 2004f:54022**

Richman, Fred The ascending tree condition: constructive algebra without countable choice. (English summary) **2004e:16001**
Schuster, Peter M. Unique existence, approximate solutions, and countable choice. (English summary) **2004k:03120**
Toffalori, Carlo *see* **Leonesi, Stefano et al., 2004d:01022**
Tordini, Samanta *see* **Leonesi, Stefano et al., 2004d:01022**
Turinici, Mihai Maximality principles in topological ordered structures. (English summary) **2004h:54027**
Zhang, Yi[12] Constructing a maximal cofinitary group. (English summary) **2004e:03088**

03E30 Axiomatics of classical set theory and its fragments

Friedman, Harvey M. Three-quantifier sentences. (English summary) **2004d:03104**
Hinnion, Roland (*with* Libert, Thierry) Positive abstraction and extensionality. (English summary) **2004e:03084**
Libert, Thierry *see* **Hinnion, Roland, 2004e:03084**
Nido Valencia, Juan Antonio (*with* Solís Daun, Julio Ernesto; Villegas Silva, Luis Miguel) Semi admissible sets. (English summary) **2004a:03055**
Nudel'man, A. S. On the simplest metatheory of sets. (Russian. Russian summary)
Sanchis, Luis E. Meta induction in operational set theory. **2004m:03176**
Solís Daun, Julio Ernesto *see* **Nido Valencia, Juan Antonio et al., 2004a:03055**
Takashi, Nitta (*with* Tomoko, Okada; Tzouvaras, Athanassios) Classification of non-well-founded sets and an application. (English summary) **2004c:03067**
Tomoko, Okada *see* **Takashi, Nitta et al., 2004c:03067**
Tzouvaras, Athanassios *see* **Takashi, Nitta et al., 2004c:03067**
Villegas Silva, Luis Miguel *see* **Nido Valencia, Juan Antonio et al., 2004a:03055**

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Beklemishev, Lev D. Proof-theoretic analysis by iterated reflection. (English summary) **2004i:03090**
Cohen, Paul R. The discovery of forcing. **2004e:03002**
Dowd, Martin Iterating Mahlo's operation. (English summary) **2004k:03101**
Ebbinghaus, Heinz-Dieter Zermelo: definiteness and the universe of definable sets. (English summary) **2004i:03002**
Forster, Thomas Finite-to-one maps. (English summary) **2004k:03093**
Hyttinen, Tapani (*with* Pauna, Matti) On non-wellfounded sets as fixed points of substitutions. (English summary) **2004f:03093**
von Kutschera, Franz Concepts of a set. (*see* **2004e:03016**)
Lawvere, F. William Foundations and applications: axiomatization and education. (English summary) **2004j:03011**
Lemin, A. Yu. (*with* Lemin, Vladimir) On metrically universal ultrametric spaces LV_τ and LW_τ. (English summary) **2004c:54026**
Lemin, Vladimir *see* **Lemin, A. Yu., 2004c:54026**
Lubarsky, Robert S. IKP and friends. **2004c:03073**
Pauna, Matti *see* **Hyttinen, Tapani, 2004f:03093**
Shapiro, Stewart Prolegomenon to any future neo-logicist set theory: abstraction and indefinite extensibility. (English summary) **2004b:03081**
Świerczkowski, S. Finite sets and Gödel's incompleteness theorems. (English summary) **2004m:03213**
(Zermelo, E.) *see* **Ebbinghaus, Heinz-Dieter, 2004i:03002**

03E35 Consistency and independence results

Andretta, Alessandro Absoluteness theorems in set theory. I. (Italian. Italian summary) **2004f:03089**
Apter, Arthur W. Expanding κ's power set in its ultrapowers. (English and Serbo-Croatian summaries) **2004d:03105**
— On the non-extendibility of strongness and supercompactness through strong compactness. (English summary) **2004a:03056**
— Indestructibility, strongness, and level by level equivalence. (English summary) **2004f:03090**
— (*with* Hamkins, Joel David) Exactly controlling the non-supercompact strongly compact cardinals. (English summary) **2004b:03075**
— Characterizing strong compactness via strongness. (English summary) **2004d:03106**
— Failures of GCH and the level by level equivalence between strong compactness and supercompactness. (English summary) **2004h:03101**
Bartoszynski, Tomek (*with* Shelah, Saharon; Tsaban, Boaz) Additivity properties of topological diagonalizations. (English summary) **2004k:03094**
Ciesielski, Krzysztof[2] (*with* Pawlikowski, Janusz) Covering property axiom $\mathrm{CPA}_{\mathrm{cube}}$ and its consequences. (English summary) **2004b:03076**
— (*with* Millán, Andrés; Pawlikowski, Janusz) Uncountable γ-sets under axiom $\mathrm{CPA}^{\mathrm{game}}_{\mathrm{cube}}$. (English summary) **2004b:03077**
— (*with* Natkaniec, Tomasz) A big symmetric planar set with small category projections. (English summary) **2004m:03177**
Deiser, Oliver (*with* Donder, Hans-Dieter) Canonical functions, non-regular ultrafilters and Ulam's problem on ω_1. (English summary) **2004k:03095**
Donder, Hans-Dieter *see* **Deiser, Oliver, 2004k:03095**
Dow, Alan (*with* Zhou, Jin Yuan[1]) Partition subalgebras for maximal almost disjoint families. (English summary) **2004c:03068**
Džamonja, Mirna (*with* Shelah, Saharon) Universal graphs at the successor of a singular cardinal. (English summary) **2004b:03078**
— (*with* Komjáth, Péter; Morgan, Charles James Glyn) Wild edge colourings of graphs. (English summary) **2004m:03178**
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Kysiak, Marcin (*with* Weiss, Tomasz) Small subsets of the reals and tree forcing notions. (English summary) **2004j:03062**
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Mitchell, William John A Gitik iteration with nearly Easton factoring. (English summary) **2004h:03102**
— A weak variation of Shelah's $I[\omega_2]$. (English summary) **2004m:03181**
Moore, Justin Tatch Random forcing and (S) and (L). (English summary) **2004e:03086**
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Akemann, Charles A. (*with* Weaver, Nik) Consistency of a counterexample to Naimark's problem. (English summary) **2004m:46131**
Baldwin, Stewart The Marczewski hull property and complete Boolean algebras. (English summary) **2004g:06007**
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— The almost-disjointness number may have countable cofinality. (English summary) **2004c:03062**
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— Distinguishing types of gaps in $\mathcal{P}(\omega)/\mathrm{fin}$. (English summary) **2004k:03088**
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03E40 Other aspects of forcing and Boolean-valued models

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Hirschorn, James Summable gaps. (English summary) **2004c:03056**
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Kysiak, Marcin (*with* Weiss, Tomasz) Small subsets of the reals and tree forcing notions. (English summary) **2004j:03062**
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03E45 Inner models, including constructibility, ordinal definability, and core models

Stanley, M. C. Outer models and genericity. **2004c:03070**

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Debs, Gabriel (*with* Saint Raymond, Jean) Compact covering mappings between Borel sets and the size of constructible reals. (English summary) **2004k:03089**
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— (*with* Lyubetskiĭ, V. A.) On some classical problems in descriptive set theory. (Russian. Russian summary) **2004m:03173**
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Schindler, Ralf *see* **Friedman, Sy D., 2004m:03172**
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03E50 Continuum hypothesis and Martin's axiom

Abian, Alexander (*with* Eslami, Esfandiar; Kemp, Paula) Uncountable sets of real numbers with no uncountable subsets of measure zero. (English summary)
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Farah, Ilijas How many Boolean algebras $\mathcal{P}(\mathbb{N})/\mathcal{I}$ are there? (English summary) **2004f:03091**
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Nudel'man, A. S. Why the generalized continuum hypothesis is true in the Cantor "world of sets". (Russian. Russian summary)
Schmerl, James H. How many clouds cover the plane? (English summary) **2004g:03081**
Woodin, W. Hugh The continuum problem. I. (Hungarian. English and Hungarian summaries)
Zhang, Yi[12] Constructing a maximal cofinitary group. (English summary) **2004e:03088**

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Apter, Arthur W. Failures of GCH and the level by level equivalence between strong compactness and supercompactness. (English summary) **2004h:03101**
Barney, Christopher Ultrafilters on the natural numbers. (English summary) **2004f:03084**
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Járai, Antal Measurability implies continuity for solutions of functional equations—even with few variables. (English summary) **2004g:39037**
Kojman, Menachem (*with* Shelah, Saharon) van der Waerden spaces and Hindman spaces are not the same. (English summary) **2004c:54003**
Kysiak, Marcin (*with* Weiss, Tomasz) Small subsets of the reals and tree forcing notions. (English summary) **2004j:03062**
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Miller, Harry I. On problems of Sierpiński and Erdös. (English and Serbo-Croatian summaries) **2004c:28002**
Montalbán, Antonio Embedding jump upper semilattices into the Turing degrees. (English summary) **2004h:03089**
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Nyikos, Peter J. Applications of some strong set-theoretic axioms to locally compact T_5 and hereditarily scwH spaces. (English summary) **2004k:54008**
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Plotka, Krzysztof The ideal of Sierpinski-Zygmund sets on the plane. (English summary) **2004b:26001**
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Yorioka, Teruyuki Distinguishing types of gaps in $\mathcal{P}(\omega)$/fin. (English summary) **2004k:03088**
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03E55 Large cardinals

Corazza, Paul The gap between I_3 and the wholeness axiom. (English summary) **2004k:03100**
Dowd, Martin Iterating Mahlo's operation. (English summary) **2004k:03101**
Kanamori, Akihiro ★ The higher infinite. **2004f:03092**
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Apter, Arthur W. Expanding κ's power set in its ultrapowers. (English and Serbo-Croatian summaries) **2004d:03105**
— On the non-extendibility of strongness and supercompactness through strong compactness. (English summary) **2004a:03056**
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03E75 Applications of set theory

Eisworth, Todd Totally proper forcing and the Moore-Mrówka problem. (English summary) **2004g:03093**
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Blass, Andreas (*with* Pambuccian, Victor) Sperner spaces and first-order logic. (English summary) **2004a:51001**
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— (*with* Komjáth, Péter; Morgan, Charles James Glyn) Wild edge colourings of graphs. (English summary) **2004m:03178**
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Forster, Thomas ★ Logic, induction and sets. **2004g:03001**
Hale, Bob Abstraction and set theory. (English summary) **2004b:03011**
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Shelah, Saharon Logical dreams. (English summary) **2004a:03004**
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03Fxx Proof theory and constructive mathematics

03F03 Proof theory, general

Beklemishev, Lev D. Proof-theoretic analysis by iterated reflection. (English summary) **2004i:03090**
Došen, Kosta Identity of proofs based on normalization and generality. (English summary) **2004m:03195**
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Minari, Pierluigi Analytic combinatory calculi and the elimination of transitivity. (English summary) **2004m:03058**
Niebergall, Karl-Georg (*with* Schirn, Matthias) Hilbert's programme and Gödel's theorems. (English summary) **2004a:03067**
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03F05 Cut-elimination and normal-form theorems

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Aghaei, Mojtaba (*with* Ardeshir, Mohammad) A Gentzen-style axiomatization for Basic Predicate Calculus. (English summary) **2004f:03095**
Arai, Toshiyasu Epsilon substitution method for $ID_1(\Pi^0_1 \vee \Sigma^0_1)$. (English summary) **2004h:03118**
Ardeshir, Mohammad *see* **Aghaei, Mojtaba**, **2004f:03095**
Baaz, Matthias (*with* Ciabattoni, Agata) A Schütte-Tait style cut-elimination proof for first-order Gödel logic. (English summary) **2004m:03197**
— (*with* Ciabattoni, Agata; Fermüller, Christian G.) Hypersequent calculi for Gödel logics—a survey. (English summary) **2004j:03068**
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Borisavljević, Mirjana Two measures for proving Gentzen's Hauptsatz without mix. (English summary) **2004j:03069**
Brünnler, Kai Atomic cut elimination for classical logic. (English summary) **2004m:03198**
Ciabattoni, Agata *see* **Baaz, Matthias et al.**, **2004j:03068** *and* **2004m:03197**
David, René (*with* Nour, Karim) A short proof of the strong normalization of classical natural deduction with disjunction. (English summary) **2004j:03070**
Dowek, Gilles (*with* Werner, Benjamin) Proof normalization modulo. (English summary) **2004j:03071**
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Gerhardy, Philipp Refined complexity analysis of cut elimination. (English summary) **2004m:03199**
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Avigad, Jeremy Ordinal analysis without proofs. (English summary) **2004a:03064**
Avron, Arnon Classical Gentzen-type methods in propositional many-valued logics. (English summary) **2004e:03046**
Baaz, Matthias (*with* Moser, Georg) On generalizations of semi-terms of particularly simple form. (English summary) **2004m:03200**
Beckmann, Arnold Dynamic ordinal analysis. (English summary) **2004m:03207**
Bellin, Gianluigi Chu's construction: a proof-theoretic approach. (English summary) **2004j:03082**
— Two paradigms of logical computation in affine logic? (English summary) **2004i:03099**
Buszkowski, Wojciech Sequent systems for compact bilinear logic. (English summary) **2004h:03121**
Cantini, Andrea The axiom of choice and combinatory logic. (English summary) **2004k:03028**
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Ciabattoni, Agata (*with* Metcalfe, George) Bounded Łukasiewicz logics. (English summary) (*see* **2004k:03007**)
Danos, Vincent (*with* Joinet, Jean-Baptiste; Schellinx, Harold) Computational isomorphisms in classical logic. (English summary) **2004i:03092**
Dawson, Jeremy E. (*with* Goré, Rajeev P.) Formalised cut admissibility for display logic. (English summary) (*see* **2004k:68010**)
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Melliès, Paul-André Double categories: a modular model of multiplicative linear logic. (English summary) **2004h:03124**
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Moot, Richard (*with* Puite, Quintijn) Proof nets for the multimodal Lambek calculus. (English summary) **2004e:03041**
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Okada, Mitsuhiro *see* **Kanovich, M. I. et al.**, **2004h:03123**
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03F07 Structure of proofs

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Batens, Diderik (*with* Provijn, Dagmar) Pushing the search paths in the proofs. A study in proof heuristics. (English summary) **2004g:03096**
Béziau, Jean-Yves Sequents and bivaluations.
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Došen, Kosta (*with* Petrić, Zoran) Generality of proofs and its Brauerian representation. (English summary) **2004m:03201**
Haeusler, Edward Hermann *see* **Rentería, Christian Jacques et al.**, **2004j:03074**
Hyland, J. Martin E. Proof theory in the abstract. (English summary) **2004a:03063**
Indrzejczak, Andrzej Resolution based natural deduction. (English summary) **2004f:03098**
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Santocanale, Luigi A calculus of circular proofs and its categorical semantics. (English summary) **2004b:03096**
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Bono, Viviana (*with* Tiuryn, Jerzy) Products and polymorphic subtypes. (English summary) **2004i:68032**
Brunet, Olivier A labelled sequent-calculus for observation logic. (English summary) (*see* **2004k:03007**)
Cantini, Andrea The undecidability of Grišin's set theory. (English summary) **2004k:03113**
Chakraborty, Mihir K. *see* **Sen, Jayanta**, **2004h:03042**
Ciabattoni, Agata *see* **Baaz, Matthias et al.**, **2004f:03043** *and* **2004j:03068**
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— (*with* Petrić, Zoran) A Brauerian representation of split preorders. (English summary) **2004j:03088**
Egly, Uwe (*with* Tompits, Hans) On different proof-search strategies for orthologic. (English summary) **2004b:03023**
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Gabbay, Dov M. *see* **Metcalfe, George et al.**, (**2004k:68003**)
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Indrzejczak, Andrzej A labelled natural deduction system for linear temporal logic. (English summary) **2004k:03037**
Jeong, Joohee Reduction of Hilbert-type proof systems to the if-then-else equational logic. (English summary) **2004h:03014**
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Minari, Pierluigi Analytic combinatory calculi and the elimination of transitivity. (English summary) **2004m:03058**
Mints, Grigoriĭ Efroimovich A termination proof for epsilon substitution using partial derivations. (English summary) **2004g:03095**
Miyakoshi, Masaaki *see* **Watari, Osamu et al.**, **2004m:03081**
Montanari, Angelo *see* **Goranko, Valentin et al.**, (**2004k:03007**)
Nakatogawa, Koji *see* **Watari, Osamu et al.**, **2004m:03081**
Negri, Sara (*with* von Plato, Jan) Permutability of rules in lattice theory. (English summary) **2004b:06010**
Nguyen, Linh Anh Analytic tableau systems for propositional bimodal logics of knowledge and belief. (English summary) (*see* **2004k:68003**)
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Renteria, Christian Jacques (*with* Haeusler, Edward Hermann) A natural deduction system for CTL. (English summary) **2004g:68113**
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Sen, Jayanta (*with* Chakraborty, Mihir K.) A study of interconnections between rough and 3-valued Łukasiewicz logics. (English summary) **2004h:03042**
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Solov′ev, S. V. (*with* Orevkov, Vladimir) On categorical equivalence of Gentzen-style derivations in IMLL. (English summary) **2004h:03125**
Stenz, Gernot *see* **Letz, Reinhold**, (**2004k:03007**)
Tiede, Hans-Joerg Proof tree automata. (English summary) **2004f:68161**
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Tortora de Falco, Lorenzo The additive multiboxes. (English summary) **2004h:03120**
— Additives of linear logic and normalization. I. A (restricted) Church-Rosser property. (English summary) **2004b:03106**
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Waaler, Arild (*with* Antonsen, Roger) A free variable sequent calculus with uniform variable splitting. (English summary) (*see* **2004k:03007**)
Watari, Osamu (*with* Ueno, Takeshi; Nakatogawa, Koji; Kawaguchi, Mayuka F.; Miyakoshi, Masaaki) Sequent systems for classical and intuitionistic substructural modal logics. (English summary) **2004m:03081**

03F10 Functionals in proof theory

Kahle, Reinhard Truth in applicative theories. (English summary) **2004b:03097**

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Hyland, J. Martin E. Proof theory in the abstract. (English summary) **2004a:03063**
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Mints, Grigoriĭ Efroimovich The epsilon substitution method and continuity. (English summary) **2004d:03125**
Oliva, Paulo *see* **Kohlenbach, Ulrich**, **2004m:03226**
Ostrin, G. E. (*with* Wainer, S. S.) Proof theoretic complexity. (English summary) **2004i:03096**
Wainer, S. S. *see* **Ostrin, G. E.**, **2004i:03096**

03F15 Recursive ordinals and ordinal notations

Avigad, Jeremy Ordinal analysis without proofs. (English summary) **2004a:03064**

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Arai, Toshiyasu Epsilon substitution method for $ID_1(\Pi^0_1 \vee \Sigma^0_1)$. (English summary) **2004h:03118**
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03F20 Complexity of proofs

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03F25 Relative consistency and interpretations

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03F30 First-order arithmetic and fragments

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03F35 Second- and higher-order arithmetic and fragments [see also 03B30]

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03F45 Provability logics and related algebras (e.g., diagonalizable algebras) [see also 03B45, 03G25, 06E25]

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03F50 Metamathematics of constructive systems

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03F52 Linear logic and other substructural logics [see also 03B47]

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03F60 Constructive and recursive analysis [see also 03B30, 03D45, 26E40, 46S30, 47S30]

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Sambin, Giovanni Some points in formal topology. **2004m:03229**
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Seminar:
Topology in Computer Science: Constructivity, Asymmetry and Partiality, Digitization ★ Topology in computer science.
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03F65 Other constructive mathematics [see also 03D45]

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Pambuccian, Victor Constructive axiomatization of non-elliptic metric planes. (English summary) **2004f:03105**
Sambin, Giovanni Some points in formal topology. **2004m:03229**
— *see also* **Coquand, Thierry et al.**, **2004m:03228**
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03Gxx Algebraic logic

Items with secondary classifications in 03Gxx

(Font, Josep Maria) *see* **Abstract algebraic logic**
(Jansana, Ramon) *see* **Abstract algebraic logic**
(Pigozzi, Don L.) *see* **Abstract algebraic logic**

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Geschke, Stefan (*with* Shelah, Saharon) Some notes concerning the homogeneity of Boolean algebras and Boolean spaces. (English summary) **2004g:03107**
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Chen, Yiping *see* **Zhan, Jian Ming et al.**
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— (*with* Xu, Yang[1]; Qin, Ke Yun) On implicative filters of lattice implication algebras. (English summary)
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03G25 Other algebras related to logic [see also 03F45, 06D20, 06E25, 06F35]

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03Hxx Nonstandard models [see also 03C62]

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03H10 Other applications of nonstandard models (economics, physics, etc.)

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03H15 Nonstandard models of arithmetic [see also 11U10, 12L15, 13L05]

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05–XX Combinatorics {For finite fields, see 11Txx.}

05–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Gross, Jonathan L.) *see* **Handbook: Graph theory, 2004j:05001**
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Kása, Zoltán ★ Combinatorică cu aplicaţii. (Romanian) [Combinatorics and applications]
Lando, Sergei ★ Lectures on generating functions. **2004m:05002**
Lauri, Josef (*with* Scapellato, Raffaele) ★ Topics in graph automorphisms and reconstruction. **2004i:05001**
Lovász, László (*with* Pelikán, József; Vesztergombi, K.) ★ Discrete mathematics. **2004a:05001**
Merris, Russell ★ Combinatorics.
Pelikán, József *see* **Lovász, László et al., 2004a:05001**
Pemmaraju, Sriram (*with* Skiena, Steven) ★ Computational discrete mathematics. **2004j:05002**
Quinn, Jennifer J. *see* **Benjamin, Arthur T., 2004f:05001**
Ringel, Gerhard *see* **Hartsfield, Nora, 2004m:05001**
Scapellato, Raffaele *see* **Lauri, Josef, 2004i:05001**
Skiena, Steven *see* **Pemmaraju, Sriram, 2004j:05002**
Vesztergombi, K. *see* **Lovász, László et al., 2004a:05001**
Xu, Jun Ming ★ Theory and application of graphs.

Items with secondary classifications in 05–01

(Björner, Anders) *see* **Matoušek, Jiří, 2004i:55001**
Matoušek, Jiří ★ Using the Borsuk-Ulam theorem. **2004i:55001**
Polster, Burkard ★ The mathematics of juggling. (English summary) **2004c:00002**
Robinson, Derek John Scott ★ An introduction to abstract algebra. **2004b:00001**
Sesiano, Jacques Construction of magic squares using the knight's move in Islamic mathematics. **2004i:01005**
Watkins, John J. ★ Across the board: the mathematics of chessboard problems. **2004m:00002**
(Ziegler, Günter M.) *see* **Matoušek, Jiří, 2004i:55001**

05–02 Research exposition (monographs, survey articles)

Alon, Noga Discrete mathematics: methods and challenges. (English summary) **2004j:05003**
Donovan, Diane (*with* Mahmoodian, Ebadollah S.; Ramsay, Colin; Street, Anne Penfold) Defining sets in combinatorics: a survey. (English summary) **2004i:05002**
Mahmoodian, Ebadollah S. *see* **Donovan, Diane et al., 2004i:05002**
Ramsay, Colin *see* **Donovan, Diane et al., 2004i:05002**
Sárközy, Gábor N. (*with* Selkow, Stanley M.; Szemerédi, Endre) On the number of Hamiltonian cycles in Dirac graphs. (English summary) **2004a:05002**
Selkow, Stanley M. *see* **Sárközy, Gábor N. et al., 2004a:05002**
Spinrad, Jeremy P. ★ Efficient graph representations. **2004e:05001**
Street, Anne Penfold *see* **Donovan, Diane et al., 2004i:05002**
Szemerédi, Endre *see* **Sárközy, Gábor N. et al., 2004a:05002**

Items with secondary classifications in 05–02

Arratia, Richard (*with* Barbour, A. D.; Tavaré, Simon) ★ Logarithmic combinatorial structures: a probabilistic approach. **2004m:60004**
Barbour, A. D. *see* **Arratia, Richard et al., 2004m:60004**
Berlekamp, Elwyn R. (*with* Conway, John Horton; Guy, Richard K.) ★ Winning ways for your mathematical plays. Vol. 2. **2004d:91001**
— (*with* Conway, John Horton; Guy, Richard K.) ★ Winning ways for your mathematical plays. Vol. 3. **2004f:91043**
— (*with* Conway, John Horton; Guy, Richard K.) ★ Winning ways for your mathematical plays. Vol. 4. **2004m:91050**
Conway, John Horton *see* **Berlekamp, Elwyn R. et al., 2004d:91001; 2004f:91043** *and* **2004m:91050**
Guy, Richard K. *see* **Berlekamp, Elwyn R. et al., 2004d:91001; 2004f:91043** *and* **2004m:91050**
Schrijver, Alexander ★ Combinatorial optimization. Polyhedra and efficiency. Vol. A. **2004b:90004a**
— ★ Combinatorial optimization. Polyhedra and efficiency. Vol. B. **2004b:90004b**
— ★ Combinatorial optimization. Polyhedra and efficiency. Vol. C. **2004b:90004c**
Tavaré, Simon *see* **Arratia, Richard et al., 2004m:60004**

05–03 Historical (must also be assigned at least one classification number from Section 01)

(Erdős, Paul[1]) *see* **Komjáth, Péter, 2004b:05001**
Gropp, Harald "Réseaux réguliers" or regular graphs. (English summary) (*see* **2004a:05004**)
Gutman, Ivan M. Impact of the Sachs theorem on theoretical chemistry: a participant's testimony. (English summary)
Komjáth, Péter Paul Erdős's adventures in the realm of infinite graphs. (Hungarian. English summary) **2004b:05001**
Lloyd, E. Keith Redfield's contributions to enumeration. **2004e:05002**
Pogliani, Lionello Phase diagrams and physicochemical graphs. How did it start. (English summary)
Tutte, William T. Graph-polynomials. (English summary) **2004k:05001**

Items with secondary classifications in 05–03

(Brunel, Georges) *see* **Gropp, Harald, 2004k:01048**
Foata, Dominique The Lotharingian impact on combinatorial mathematics: myth or reality?
Gropp, Harald "Réseaux réguliers" or regular graphs—Georges Brunel as a French pioneer in graph theory. (English summary) **2004k:01048**
Hobbs, Arthur M. (*with* Oxley, James G.) William T. Tutte (1917–2002). **2004j:01027**
Hopkins, Brian (*with* Wilson, Robin J.) The truth about Königsberg. (English summary) **2004m:01019**
Oxley, James G. *see* **Hobbs, Arthur M., 2004j:01027**
Prada Blanco, Julia (*with* Senosiain, M. J.) The classical umbral calculus: reading Blissard with the key given by G. C. Rota and B. D. Taylor. (English summary) **2004h:05016**
Rashed, Roshdi Histoire de l'analyse combinatoire. [History of combinatorial analysis] **2004b:01010**
Senosiain, M. J. *see* **Prada Blanco, Julia, 2004h:05016**
Sesiano, Jacques Construction of magic squares using the knight's move in Islamic mathematics. **2004i:01005**
(Tutte, William T.) *see* **Hobbs, Arthur M., 2004j:01027**
Wilson, Robin J. *see* **Hopkins, Brian, 2004m:01019**

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Obituary:
Tutte, William Thomas *see* **Hobbs, Arthur M., 2004j:01027**

05–04 Explicit machine computation and programs (not the theory of computation or programming)

Iturriaga, Claudia (*with* Lubiw, Anna) Elastic labels around the perimeter of a map. (English summary) **2004b:05002**
Lubiw, Anna *see* **Iturriaga, Claudia, 2004b:05002**
Makarov, Lev I. Taxonomy algorithm for molecular graphs. (English summary)
Rubin, Frank Improved knight coverings. (English summary)

Items with secondary classifications in 05–04

Auger, Pierre (*with* Labelle, Gilbert; Leroux, Pierre) Computing the molecular expansion of species with the Maple package Devmol.
Betten, Anton (*with* Betten, Dieter; Tonchev, Vladimir D.) Unitals and codes. (English summary) **2004e:05030**
Betten, Dieter *see* **Betten, Anton et al., 2004e:05030**
Biedl, Therese C. (*with* Demaine, Erik D.; Demaine, Martin L.; Fleischer, Rudolf; Jacobsen, Lars; Munro, J. Ian) The complexity of Clickomania. (English summary) **2004b:91041**
Brinkmann, Gunnar (*with* Harmuth, Thomas; Heidemeier, Oliver) The construction of cubic and quartic planar maps with prescribed face degrees. (English summary) **2004c:05091**
Demaine, Erik D. *see* **Biedl, Therese C. et al., 2004b:91041**
Demaine, Martin L. *see* **Biedl, Therese C. et al., 2004b:91041**
Fleischer, Rudolf *see* **Biedl, Therese C. et al., 2004b:91041**
Harmuth, Thomas *see* **Brinkmann, Gunnar et al., 2004c:05091**
Heidemeier, Oliver *see* **Brinkmann, Gunnar et al., 2004c:05091**
Jacobsen, Lars *see* **Biedl, Therese C. et al., 2004b:91041**
Labelle, Gilbert *see* **Auger, Pierre et al.**
Leroux, Pierre *see* **Auger, Pierre et al.**
Munro, J. Ian *see* **Biedl, Therese C. et al., 2004b:91041**
Pemmaraju, Sriram (*with* Skiena, Steven) ★ Computational discrete mathematics. **2004j:05002**
Skiena, Steven *see* **Pemmaraju, Sriram, 2004j:05002**
Tonchev, Vladimir D. *see* **Betten, Anton et al., 2004e:05030**
Vygen, Jens A note on Schrijver's submodular function minimization algorithm. (English summary) **2004d:90075**

05–06 Proceedings, conferences, collections, etc.

(Alavi, Yousef) *see* **Combinatorics, graph theory, and algorithms, 2004a:05003**
(Atkinson, M. D.) *see* **Permutation patterns**
(Bedford, David) *see* **Conference: Combinatorial**
(Bichara, Alessandro) *see* **Combinatorics**
(Bollobás, Béla) *see* **Special Issue: Ramsey theory**
(Brandstädt, Andreas) *see* **Optimal discrete structures and algorithms (ODSA 2000)**
(Brightwell, Graham R.) *see* **Special Issue: Ramsey theory**
(Broersma, H. J.) *see* **Workshop: Graphs and Combinatorial Optimization**
(Camina, Alan R.) *see* **Conference: Combinatorial**
(Edwards, K. J.) *see* **Conference: Combinatorial**
(Engel, Konrad) *see* **Optimal discrete structures and algorithms (ODSA 2000)**
(Erdős, Paul[1]) *see* **Combinatorics, graph theory, and algorithms, 2004a:05003** *and* **Paul Erdős and his mathematics**
(Faigle, Ulrich) *see* **Workshop: Graphs and Combinatorial Optimization**
(de Figueiredo, Celina M. H.) *see* **Workshop: Cliques in Graphs**

(Fomin, Sergey) *see* **Symmetric functions 2001: surveys of developments and perspectives, 2004m:05003**
(Fouquet, J.-L.) *see* **Conference: Graph Theory**
(Fujishige, Satoru) *see* **Submodularity**
(Ghinelli-Smit, Dina) *see* **Combinatorics**
(Griggs, T. S.) *see* **Conference: Combinatorial**
(Gronau, Hans-Dietrich) *see* **Optimal discrete structures and algorithms (ODSA 2000)**
(Holton, Derek) *see* **Permutation patterns**
(Hurink, Johann) *see* **Workshop: Graphs and Combinatorial Optimization**
(Jing, Naihuan) *see* **Algebraic combinatorics and quantum groups, 2004h:05001**
(Kaufmann, Michael) *see* **Drawing graphs, 2004b:05003**
(Kohayakawa, Yoshiharu) *see* **Special Issue: Ramsey theory**
(Kratsch, Dieter) *see* **Colloquium: Computer Science at Metz, Graph Algorithms**
(Kung, Joseph P. S.) *see* **Special Issue: Tutte polynomial**
(Labahn, Roger) *see* **Optimal discrete structures and algorithms (ODSA 2000)**
(Leader, Imre) *see* **Special Issue: Ramsey theory**
(Lick, Don R.) *see* **Combinatorics, graph theory, and algorithms, 2004a:05003**
(Lozin, Vadim V.) *see* **Stability in graphs and related topics**
(Lunardon, Guglielmo) *see* **Combinatorics**
(Mazzocca, Francesco) *see* **Combinatorics**
(Nešetřil, Jaroslav) *see* **Graphs, morphisms and statistical physics, 2004k:05002** *and* **EuroComb'01**
(Noy, Marc) *see* **EuroComb'01** *and* **Special Issue: Tutte polynomial**
(Pach, János) *see* **Towards a theory of geometric graphs, 2004m:05004**
(Pickl, Stefan) *see* **Workshop: Graphs and Combinatorial Optimization**
(Ramsey, Frank) *see* **Special Issue: Ramsey theory**
Reed, Bruce A. (*with* Song, Siang W.; Szwarcfiter, Jayme L.) Preface [Brazilian Symposium on Graphs, Algorithms and Combinatorics].
(Rusu, Irena) *see* **Conference: Graph Theory, 2004a:05004**
(Schwenk, Allen J.) *see* **Combinatorics, graph theory, and algorithms, 2004a:05003**
(Scott, Alexander D.) *see* **Special Issue: Ramsey theory**
(Serra, Oriol) *see* **EuroComb'01**
(Shiue, Peter Jau-Shyong) *see* **MCCCC**
Song, Siang W. *see* **Reed, Bruce A. et al.**
Szwarcfiter, Jayme L. *see* **Workshop: Cliques in Graphs** *and* **Reed, Bruce A. et al.**
(Thomason, Andrew) *see* **Conference: Combinatorial**
(Tutte, William T.) *see* **Special Issue: Tutte polynomial**
(Wagner, Dorothea) *see* **Drawing graphs, 2004b:05003**
(Welsh, D. J. A.) *see* **Special Issue: Tutte polynomial**
(Wensley, C. D.) *see* **Surveys in combinatorics, 2004e:05003**
(de Werra, Dominique) *see* **Stability in graphs and related topics**
(Winkler, Peter M.) *see* **Graphs, morphisms and statistical physics, 2004k:05002**
(Woodall, Douglas R.) *see* **Conference: Combinatorial**

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Algebraic combinatorics and quantum groups ★ Algebraic combinatorics and quantum groups. **2004h:05001**
Anniversary:
Birth of Ramsey, Frank Plumpton ★ Special issue on Ramsey theory.
Bangor ★ Surveys in combinatorics 2003. **2004e:05003**
Barcelona ★ EuroComb'01.
Boca Raton, FL ★ Proceedings of the Thirty-third Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-third Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-third Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-third Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-third Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-third Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
Brighton ★ The 18th British Combinatorial Conference.
Cambridge ★ Symmetric functions 2001: surveys of developments and perspectives. **2004m:05003**
Colloquium:
Computer Science at Metz, Graph Algorithms ★ Second International Colloquium "Journées de l'Informatique Messine". [Second International Colloquium "Computer Science at Metz"]
Cologne ★ The 1st Cologne-Twente Workshop on Graphs and Combinatorial Optimization (CTW 2001).
Combinatorics ★ Combinatorics 2000.
Combinatorics, graph theory, and algorithms ★ Combinatorics, graph theory, and algorithms. Vol. I, II. **2004a:05003**
Conference:
Combinatorial ★ Surveys in combinatorics 2003. **2004e:05003**
— ★ The 18th British Combinatorial Conference.
Conference: (*cont'd.*)
Combinatorics, Cryptography, and Computing ★ {15th MCCCC}.
Combinatorics, Graph Theory and Applications ★ EuroComb'01.
Graph Theory ★ 6th International Conference on Graph Theory. **2004a:05004**
— ★ 6th International Conference on Graph Theory.
Graph Theory, Combinatorics, Algorithms, and Applications ★ Combinatorics, graph theory, and algorithms. Vol. I, II. **2004a:05003**
Contemporary Mathematics ★ Towards a theory of geometric graphs. **2004m:05004**
Drawing graphs ★ Drawing graphs. **2004b:05003**
EuroComb'01 ★ EuroComb'01.
Gaeta ★ Combinatorics 2000.
Graphs, morphisms and statistical physics ★ Graphs, morphisms and statistical physics. **2004k:05002**
Kalamazoo, MI ★ Combinatorics, graph theory, and algorithms. Vol. I, II. **2004a:05003**
Las Vegas, NV ★ {15th MCCCC}.
Lecture Notes in Computer Science ★ Drawing graphs. **2004b:05003**
Marseille ★ 6th International Conference on Graph Theory. **2004a:05004**
— ★ 6th International Conference on Graph Theory.
MCCCC ★ {15th MCCCC}.
Memorial Issue:
Erdős, Paul[1] ★ Paul Erdős and his mathematics.
Tutte, William Thomas ★ Special issue on the Tutte polynomial.
Memorial Volume:
Erdős, Paul[1] ★ Combinatorics, graph theory, and algorithms. Vol. I, II. **2004a:05003**
Metz ★ Second International Colloquium "Journées de l'Informatique Messine". [Second International Colloquium "Computer Science at Metz"]
Optimal discrete structures and algorithms (ODSA 2000) ★ Optimal discrete structures and algorithms (ODSA 2000).
Otago ★ Permutation patterns.
Paul Erdős and his mathematics ★ Paul Erdős and his mathematics.
Permutation patterns ★ Permutation patterns.
Piscataway, NJ ★ Graphs, morphisms and statistical physics. **2004k:05002**
Proceedings:
Conference on Combinatorics, Graph Theory and Computing ★ Proceedings of the Thirty-third Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-third Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-third Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-third Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-third Southeastern International Conference on Combinatorics, Graph Theory and Computing.
Conference on Combinatorics, Graph Theory and Computing, 34th Southeastern International ★ Proceedings of the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
— ★ Proceedings of the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing.
Rio de Janeiro ★ The Latin-American Workshop on Cliques in Graphs.
Rostock ★ Optimal discrete structures and algorithms (ODSA 2000).
Special Issue:
Ramsey theory ★ Special issue on Ramsey theory.
Tutte polynomial ★ Special issue on the Tutte polynomial.
Stability in graphs and related topics ★ Stability in graphs and related topics.
Submodularity ★ Submodularity.
Surveys in combinatorics ★ Surveys in combinatorics 2003. **2004e:05003**
Symmetric functions 2001: surveys of developments and perspectives ★ Symmetric functions 2001: surveys of developments and perspectives. **2004m:05003**
Towards a theory of geometric graphs ★ Towards a theory of geometric graphs. **2004m:05004**
Workshop:
Cliques in Graphs ★ The Latin-American Workshop on Cliques in Graphs.
Graphs and Combinatorial Optimization ★ The 1st Cologne-Twente Workshop on Graphs and Combinatorial Optimization (CTW 2001).
Graphs, Morphisms and Applications ★ EuroComb'01.

Items with secondary classifications in 05–06

(Aardal, Karen I.) *see* **Integer programming and combinatorial optimization, 2004j:90010**
(Aronov, Boris) *see* **Discrete and computational geometry, 2004j:00031**
Bannai, Eiichi (*with* Haemers, Willem; Solé, Patrick) Preface: Dedication [To Johan Jacob Seidel 1919–2001].
(Barcelo, Hélène) *see* **Formal power series and algebraic combinatorics**
(Basu, Saugata) *see* **Discrete and computational geometry, 2004j:00031**
(Bennett, Frank E.) *see* **In honour of Zhu Lie**
(Bilardi, Gianfranco) *see* **Symposium: Algorithms**
(Bondy, John Adrian) *see* **Dedicated to Adrian Bondy and U. S. R. Murty**
(Bornholdt, Stefan) *see* **Handbook: Graphs and networks, 2004f:00010**
(Borodin, O. V.) *see* **Russian translations. II**

(Calude, Cristian S.) *see* **Discrete mathematics and theoretical computer science, 2004k:68004**
(Chartrand, Gary) *see* **In honor of Frank Harary**
(Colbourn, Charles J.) *see* **In honour of Zhu Lie**
(Diaz, Josep) *see* **Selected papers in honor of Lawrence Harper**
(Dinneen, Michael J.) *see* **Discrete mathematics and theoretical computer science, 2004k:68004**
Donovan, Diane (*with* Iliopoulos, Costas S.; Miller, Mirka) Editorial [Selected papers of the Thirteenth Australasian Workshop on Combinatorial Algorithms].
(Durand, Bruno) *see* **Tilings of the plane**
(Eglese, Richard W.) *see* **Symposium: Combinatorial Optimisation**
(Everett, Martin G.) *see* **Symposium: Combinatorial Optimisation**
(Fleischer, Rudolf) *see* **Algorithmic combinatorial game theory**
(Fowler, Patrick W.) *see* **Dedicted to Professor Horst Sachs on the occasion of his 75th birthday**
(Gerards, Albertus M. H.) *see* **Integer programming and combinatorial optimization, 2004j:90010**
(Goodman, Jacob Eli) *see* **Discrete and computational geometry, 2004j:00031**
Haemers, Willem *see* **Bannai, Eiichi et al.**
(Harary, Frank) *see* **In honor of Frank Harary**
(Harper, Lawrence) *see* **Selected papers in honor of Lawrence Harper**
(Haynes, Teresa W.) *see* **In honor of Frank Harary**
(Hedetniemi, Stephen T.) *see* **In honor of Frank Harary**
(Hwang, Suk-Geun) *see* **Conference: Combinatorial Matrix Theory**
Iliopoulos, Costas S. *see* **Combinatorial algorithms** *and* **Donovan, Diane et al.**
(Italiano, Giuseppe F.) *see* **Symposium: Algorithms**
(John, Peter E.) *see* **Dedicted to Professor Horst Sachs on the occasion of his 75th birthday**
(Kräuter, Arnold R.) *see* **Conference: Combinatorial Matrix Theory**
(Kung, Joseph P. S.) *see* **Formal power series and algebraic combinatorics** *and* **Dedicated to the memory of Gian-Carlo Rota**
(Liotta, Giuseppe) *see* **Symposium: Graph Drawing**
Miller, Mirka *see* **Donovan, Diane et al.**
(Murty, U. S. R.) *see* **Dedicated to Adrian Bondy and U. S. R. Murty**
(Nowakowski, Richard J.) *see* **Algorithmic combinatorial game theory**
(Pach, János) *see* **Discrete and computational geometry, 2004j:00031**
(Payne, Thomas H.) *see* **Selected papers in honor of Lawrence Harper**
(Pollack, Richard M.) *see* **Discrete and computational geometry, 2004j:00031**
(Potts, Chris N.) *see* **Symposium: Combinatorial Optimisation**
(Pruhs, Kirk R.) *see* **Symposium: Discrete Algorithms**
(Radzik, Tomasz) *see* **Combinatorial algorithms**
(Rolim, José D. P.) *see* **Randomization and approximation techniques in computer science, 2004j:68019**
(Rota, Gian-Carlo) *see* **Dedicated to the memory of Gian-Carlo Rota**
(Sachs, Horst) *see* **Dedicted to Professor Horst Sachs on the occasion of his 75th birthday**
(Schuster, Heinz Georg) *see* **Handbook: Graphs and networks, 2004f:00010**
(Seidel, Johan Jacob) *see* **Bannai, Eiichi et al.**
(Shader, Bryan L.) *see* **Conference: Combinatorial Matrix Theory**
(Shao, Jia-Yu) *see* **Conference: Combinatorial Matrix Theory**
(Sharir, Micha) *see* **Discrete and computational geometry, 2004j:00031**
(Simion, Rodica) *see* **Formal power series and algebraic combinatorics**
Solé, Patrick *see* **Bannai, Eiichi et al.**
(Strusevich, V. A.) *see* **Symposium: Combinatorial Optimisation**
(Vadhan, Salil) *see* **Randomization and approximation techniques in computer science, 2004j:68019**
(Vajnovszki, Vincent) *see* **Discrete mathematics and theoretical computer science, 2004k:68004**
(Vershik, Anatoliĭ Moiseevich) *see* **Asymptotic combinatorics with applications to mathematical physics, 2004g:00017**
(Vuillon, Laurent) *see* **Tilings of the plane**
(Wei, Ruizhong) *see* **In honour of Zhu Lie**
(Welker, Volkmar) *see* **Formal power series and algebraic combinatorics**
(Whitesides, Sue H.) *see* **Symposium: Graph Drawing**
(Yin, Jian Xing) *see* **In honour of Zhu Lie**
(Zhang, Ping[6]) *see* **In honor of Frank Harary**
(Zhu, Lie[1]) *see* **In honour of Zhu Lie**

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Algorithmic combinatorial game theory ★ Algorithmic combinatorial game theory.
Asymptotic combinatorics with applications to mathematical physics ★ Asymptotic combinatorics with applications to mathematical physics. **2004g:00017**
Baltimore, MD ★ Proceedings of the Fourteenth Annual ACM-SIAM Symposium on Discrete Algorithms. **2004a:68002**
Barcelona ★ First International Conference on Graph Transformation (ICGT 2002).
Bibliography:
  Sachs, Horst ★ {Dedicated to Professor Horst Sachs on the occasion of his 75th birthday}.
Cambridge, MA ★ Randomization and approximation techniques in computer science. **2004j:68019**
Combinatorial algorithms ★ Combinatorial algorithms.
Combinatorics ★ {Combinatorics 2002}.
Conference:
  Combinatorial Matrix Theory ★ Special issue on the Combinatorial Matrix Theory Conference.
  Discrete Analysis and Operations Research ★ Международная Конференция DAOR'2002. [International Conference DAOR'2002]
  — ★ Международная Конференция DAOR'2002. [International Conference DAOR'2002]
  Graph Transformation, 1st International, ICGT 2002 ★ First International Conference on Graph Transformation (ICGT 2002).
Dagstuhl ★ Algorithmic combinatorial game theory.
Dedicated to Adrian Bondy and U. S. R. Murty ★ {Dedicated to Adrian Bondy and U. S. R. Murty}.
Dedicated to the memory of Gian-Carlo Rota ★ Dedicated to the memory of Gian-Carlo Rota.
— ★ Dedicated to the memory of Gian-Carlo Rota.
Dedicted to Professor Horst Sachs on the occasion of his 75th birthday ★ {Dedicated to Professor Horst Sachs on the occasion of his 75th birthday}.
Dijon ★ Discrete mathematics and theoretical computer science. **2004k:68004**
Discrete and computational geometry ★ Discrete and computational geometry. **2004j:00031**
Discrete mathematics and theoretical computer science ★ Discrete mathematics and theoretical computer science. **2004k:68004**
Festschrift:
  Bondy, John Adrian ★ {Dedicated to Adrian Bondy and U. S. R. Murty}.
  Goodman, Jacob Eli ★ Discrete and computational geometry. **2004j:00031**
  Harary, Frank ★ In honor of Frank Harary.
  Harper, Lawrence H. ★ Selected papers in honor of Lawrence Harper.
  Murty, U. S. R. ★ {Dedicated to Adrian Bondy and U. S. R. Murty}.
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05Axx Enumerative combinatorics

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05Bxx Designs and configurations {For applications of design theory, see 94C30.}

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05B05 Block designs [see also 51E05, 62K10]

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05B15 Orthogonal arrays, Latin squares, Room squares

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05B20 Matrices (incidence, Hadamard, etc.)

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05B25 Finite geometries [see also 51D20, 51Exx]

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Barát, János (*with* Innamorati, S.) Largest minimal blocking sets in PG$(2, 8)$. (English summary) **2004c:05042**
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Arocha Pérez, Jorge Luis (*with* Bracho, Javier; Montejano, Luis) Transversal lines to lines and intervals. (English summary) **2004m:52012**
Aronov, Boris (*with* Schiffenbauer, Robert; Sharir, Micha) On the number of views of translates of a cube and related problems. (English summary) **2004j:68174**
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Baker, Ronald D. (*with* Wantz, K. L.) Unitals in the code of the Hughes plane. (English summary) **2004j:94030**
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05C60 Isomorphism problems (reconstruction conjecture, etc.)

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05C62 Graph representations (geometric and intersection representations, etc.)

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05C65 Hypergraphs

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05Dxx Extremal combinatorics

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05D05 Extremal set theory

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— (*with* Aïdinyan, A. K.; Khachatrian, Levon H.) More about shifting techniques. (English summary) **2004f:05182**
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Bae, Jaegug (*with* Choi, Sungjin) A generalization of a subset-sum-distinct sequence. (English summary) **2004d:05198**
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Füredi, Zoltán (*with* Sudakov, Benny) Extremal set systems with restricted k-wise intersections. (English summary) **2004m:05260**
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— *see also* **Borowiecki, Mieczysław et al., 2004e:05085**
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05D10 Ramsey theory

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Datskovsky, Boris A. On the number of monochromatic Schur triples. (English summary) **2004d:05202**
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Halbeisen, Lorenz (*with* Matet, Pierre) A result in dual Ramsey theory. (English summary) **2004e:05196**
Harborth, Heiko *see* **Bode, Jens-P. et al., (2004i:00017)**
Hindman, Neil Image partition regularity over the reals. (English summary) **2004h:05124**
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Leader, Imre Partition regular equations. (English summary) **2004g:05148**
— *see also* **Hindman, Neil et al., 2004a:05155** *and* **Gunderson, David S. et al., 2004h:05123**
Longani, Vites Some bipartite Ramsey numbers. (English summary) **2004m:05264**
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Pach, János (*with* Tóth, Géza) Conflict-free colorings. (English summary) **2004m:05265**
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Pikhurko, Oleg Further asymptotic size Ramsey results obtained via linear programming. (English summary) **2004k:05201**
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Alon, Noga (*with* Krivelevich, Michael; Sudakov, Benny) Turán numbers of bipartite graphs and related Ramsey-type questions. (English summary) **2004m:05137**
Argyros, Spiros A. (*with* Godefroy, Gilles; Rosenthal, Haskell P.) Descriptive set theory and Banach spaces. (English summary) **2004g:46002**
Arocha Pérez, Jorge Luis (*with* Tey, Joaquin) The size of minimum 3-trees: cases 0 and 1 mod 12. (English summary) **2004d:05133**
Bárány, Imre (*with* Károlyi, Gyula) Problems and results around the Erdős-Szekeres convex polygon theorem. (*see* **2004j:52001**)
Bartal, Yair (*with* Linial, Nathan; Mendel, Manor; Naor, Assaf) Low dimensional embeddings of ultrametrics. (English summary) **2004k:54038**
(Bollobás, Béla) *see* **Special Issue: Ramsey theory**
(Brightwell, Graham R.) *see* **Special Issue: Ramsey theory**
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Halbeisen, Lorenz (*with* Matet, Pierre) A generalization of the dual Ellentuck theorem. (English summary) **2004d:03095**
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Hegyvári, Norbert On a problem of Sárközy. (English summary) **2004k:11022**
Hindman, Neil Problems and new results on the algebra of $\beta\mathbb{N}$ and its application to Ramsey theory. (English summary) **2004a:22003**
Károlyi, Gyula *see* **Bárány, Imre, (2004j:52001)**
(Kohayakawa, Yoshiharu) *see* **Special Issue: Ramsey theory**
Komjáth, Péter (*with* Shelah, Saharon) A partition theorem for scattered order types. (English summary) **2004m:03168**
Krivelevich, Michael *see* **Alon, Noga et al., 2004m:05137**
(Leader, Imre) *see* **Special Issue: Ramsey theory**
Li, Jing Wen[3] *see* **Zhang, Zhong Fu et al., 2004i:05110**
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Schiermeyer, Ingo All cycle-complete graph Ramsey numbers $r(C_m, K_6)$. (English summary) **2004i:05109**
(Scott, Alexander D.) *see* **Special Issue: Ramsey theory**
Shelah, Saharon *see* **Komjáth, Péter, 2004m:03168**
Shi, Lingsheng Upper bounds for Ramsey numbers. (English summary) **2004d:05132**
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Birth of Ramsey, Frank Plumpton ★ Special issue on Ramsey theory.
Special Issue:
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05D15 Transversal (matching) theory

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Benediktovich, V. I. (*with* Sarvanov, V. I.) On the relation of the parameters of a regular polyhedron in $\mathbb{R}^3$. (Russian. English and Russian summaries) **2004g:52010**
Eckhoff, Jürgen A survey of the Hadwiger-Debrunner (p, q)-problem. (*see* **2004j:00031**)
Kézdy, André E. (*with* Lehel, Jenő; Powers, Robert C.) Heavy transversals and indecomposable hypergraphs. (English summary) **2004g:05112**
Lehel, Jenő *see* **Kézdy, André E. et al., 2004g:05112**
Pinelis, Iosif A discrete mass transportation problem for infinitely many sites, and general representant systems for infinite families. (English summary) **2004h:90062**
Powers, Robert C. *see* **Kézdy, André E. et al., 2004g:05112**
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05D40 Probabilistic methods

Calkin, Neil J. (*with* Farr, Jeffrey B.) Slow convergence of a double-biased sequence. (English summary) **2004f:05185**
Chung, Fan (*with* Handjani, Shirin J.; Jungreis, Douglas S.) Generalizations of Polya's urn problem. (English summary) **2004e:05197**
Farr, Jeffrey B. *see* **Calkin, Neil J., 2004f:05185**
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Alon, Noga (*with* Krivelevich, Michael; Sudakov, Benny) Turán numbers of bipartite graphs and related Ramsey-type questions. (English summary) **2004m:05137**
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Cooper, Colin *see* **Bohman, Tom et al., 2004k:05198**
Dumitriu, Ioana (*with* Spencer, Joel H.; Yan, Catherine H.) Branching processes with negative offspring distributions. (English summary) **2004d:60112**
Flaxman, Abraham (*with* Harrow, Aram W.; Sorkin, Gregory B.) Strings with maximally many distinct subsequences and substrings. (English summary) **2004k:05016**
Frieze, Alan *see* **Bohman, Tom et al., 2004k:05198**
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05E30 Association schemes, strongly regular graphs

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06Axx Ordered sets

06A05 Total order

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06A07 Combinatorics of partially ordered sets

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06A15 Galois correspondences, closure operators

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06B15 Representation theory

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06B20 Varieties of lattices

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06B25 Free lattices, projective lattices, word problems [see also 03D40, 08A50, 20F10]

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06B30 Topological lattices, order topologies [see also 06F30, 22A26, 54F05, 54H12]

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06B35 Continuous lattices and posets, applications [see also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]

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06Cxx Modular lattices, complemented lattices

06C05 Modular lattices, Desarguesian lattices

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06Dxx Distributive lattices

06D05 Structure and representation theory

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06D10 Complete distributivity

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06D15 Pseudocomplemented lattices

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06D20 Heyting algebras [see also 03G25]

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06D22 Frames, locales {For topological questions see 54–XX.}

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Picado, Jorge (*with* Pultr, Aleš; Tozzi, Anna) Locales.
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06D30 De Morgan algebras, Łukasiewicz algebras [see also 03G20]

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Chen, Xue You *see* **Li, Qing Guo[1] et al.**
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06D35 MV-algebras

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06Fxx Ordered structures

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06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [see also 46A40]

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08–01 Instructional exposition (textbooks, tutorial papers, etc.)

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08–02 Research exposition (monographs, survey articles)

Chajda, Ivan (*with* Eigenthaler, Günther; Länger, Helmut) ★ Congruence classes in universal algebra. **2004b:08001**
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08–06 Proceedings, conferences, collections, etc.

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08Axx Algebraic structures [see also 03C05]

08A02 Relational systems, laws of composition

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Fountain, John B. (*with* Gould, Victoria) Relatively free algebras with weak exchange properties. (English summary) **2004k:08008**
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08A30 Subalgebras, congruence relations

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Chajda, Ivan (*with* Halaš, Radomír) Congruence submodularity. (English summary) **2004d:08003**
— Distributivity of congruence kernels. (English summary) **2004e:08002**
— Ternary t-deductive systems. (English summary) **2004b:08002**
— (*with* Horváth, Eszter K.) A scheme for congruence semidistributivity. (English summary)
— The condition under which a pre-logic becomes an implication algebra. (English summary) **2004d:08004**
— Generalized deductive systems in subregular varieties. (English summary) **2004i:08001**
— (*with* Eigenthaler, Günther; Länger, Helmut) Determined congruence classes. (English summary) (*see* **2004k:08001**)
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Çuvalcıoğlu, Gokhan On fuzzy Ω-word algebras. (English summary)
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08A35 Automorphisms, endomorphisms

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Jakubíková-Studenovská, Danica On a relation between monounary algebras and unoriented graphs. (English summary) **2004i:08007**
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Neumann-Lara, Víctor *see* **Hazan, Simone**, **2004b:06001**
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Pinus, A. G. On the diagram of classes of conditional term functions. (Russian. English and Russian summaries) **2004c:08007**
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08A40 Operations, polynomials, primal algebras

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— (*with* Idziak, Paweł M.) Counting Mal′tsev clones on small sets. (English summary) **2004i:08003**
Contla, Pedro Acevedo (*with* Stojmenović, Ivan) Classification of the maximal clones of two-valued logic. (English summary) **2004e:08004**
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— (*with* Jampachon, P.; Wismath, Shelly L.) Clones of n-ary algebras. (English summary) **2004d:08005**
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Fearnley, Anne (*with* Rosenberg, Ivo G.) Collapsing monoids containing permutations and constants. (English summary) **2004i:08004**
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Kuchmei, Vladimir ★ Affine completeness of some Ockham algebras. **2004f:08002**
Larose, Benoit A note on minimal varieties generated by order-primal algebras. (English summary) **2004c:08006**
Machida, Hajime Some properties of hyperoperations and hyperclones. (English summary) **2004j:08003**
Pilz, Günter F. *see* **Aichinger, Erhard**, **2004m:08003**
Pinus, A. G. On the diagram of classes of conditional term functions. (Russian. English and Russian summaries) **2004c:08007**
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Safin, K. L. (*with* Sukhanov, E. V.) On iterative algebras without projections. (Russian. Russian summary) **2004c:08008**
Stojmenović, Ivan *see* **Contla, Pedro Acevedo**, **2004e:08004**
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Waldhauser, Tamás Minimal clones with weakly abelian representations. (English summary) **2004i:08005**
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— (*with* Idziak, Paweł M.) Polynomial interpolation in expanded groups. (English summary) **2004k:08003**
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Kisielewicz, Andrzej Complete systems of subalgebras. (English summary) **2004c:08011**
Kuchmei, Vladimir Affine completeness of de Morgan algebras. (English summary) **2004e:06014**
Länger, Helmut *see* **Chajda, Ivan et al.**, **2004b:08001**
Mayr, Peter *see* **Aichinger, Erhard**, **2004j:16049**
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08A45 Equational compactness

Redi, Ellen Properties of 0-dense two-based clones of act-type algebras. (English and Latvian summaries)

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Tůma, Jiří On the structure of quasi-ordering lattices. (English summary) **2004i:06007**
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08A50 Word problems [see also 03D40, 06B25, 20F10, 68R15]

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Popov, Vladimir Yur'evich On independently decomposable systems of semigroup identities. (Russian. Russian summary) **2004g:20078**
Teixeira de Oliveira, Luis António A solution to the word problem for free pseudosemilattices. (English summary) **2004m:08007**
Zhdanovich, P. B. Free abelian extensions of S_p-permutable algebras. (Russian. Russian summary) **2004j:08007**

08A55 Partial algebras

Alberich, R. (*with* Rosselló-Llompart, Francesc) Pushouts of partial homomorphisms of partial algebras. II. Closed quomorphisms. (English summary) **2004i:08006**
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— (*with* Staruch, Bogdan) Possible sets of equations. (English summary) **2004b:08003**

08A60 Unary algebras

Bogdanović, Stojan (*with* Ćirić, Miroslav; Imreh, Balázs; Petković, Tatjana; Steinby, Magnus) On local properties of unary algebras. (English summary) **2004h:08006**
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— On a cancellation law for monounary algebras. (English summary) **2004b:08004**
— On a relation between monounary algebras and unoriented graphs. (English summary) **2004i:08007**
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Pitkethly, J. G. Inherent dualisability. (English summary) **2004d:08011**
Sichler, J. (*with* Trnková, V.) On coconnected algebras. (English summary) **2004e:08003**
Trnková, V. *see* **Sichler, J., 2004e:08003**
Wismath, Shelly L. *see* **Denecke, Klaus et al., 2004d:08005**
Zelinka, Bohdan Algebraic approach to locally finite trees with one end. (English summary) **2004c:05054**

08A62 Finitary algebras

Items with secondary classifications in 08A62

Denecke, Klaus (*with* Wismath, Shelly L.) Complexity of terms, composition, and hypersubstitution. (English summary) **2004c:08004**
Griffing, Gary Composition-representative subsets. (English summary) **2004k:18002**
Thompson, Edward *see* **Weaver, George, 2004f:03060**
Vasil'ev, S. K. On identities and varieties of associative algebras of finite type. (Russian. English and Russian summaries) **2004j:16026**
Weaver, George (*with* Thompson, Edward) Hermes algebras. (English summary) **2004f:03060**
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08A70 Applications of universal algebra in computer science

Ésik, Zoltán Free De Morgan bisemigroups and bisemilattices. (English summary) **2004f:08003**
Pinus, A. G. (*with* Zhurkov, S. V.) On scales of computability potentials of universal algebras. (Russian. Russian summary)
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van Breugel, Franck (*with* Shalit, Steven; Worrell, James) Testing labelled Markov processes. (English summary)
Brzozowski, Janusz (*with* Ésik, Zoltán; Iland, Yaacov) Algebras for hazard detection. (English summary) **2004d:94064**
Bulatov, Andrei A. (*with* Jeavons, Peter; Volkov, Mikhail V.) Finite semigroups imposing tractable constraints. (English summary) **2004j:68160**
Buls, Jānis (*with* Zandere, Ieva) Injective morphisms of the machine semigroups. (English summary) (*see* **2004k:08001**)
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— (*with* Wismath, Shelly L.) Valuations and hypersubstitutions. (English summary) **2004m:08006**
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Frias, Marcelo Fabián ★ Fork algebras in algebra, logic and computer science. (English summary) **2004b:03112**
Griffing, Gary Composition-representative subsets. (English summary) **2004k:18002**
Iland, Yaacov *see* **Brzozowski, Janusz et al., 2004d:94064**
Jeavons, Peter *see* **Bulatov, Andrei A. et al., 2004j:68160**
Khoussainov, Bakhadyr On algebraic and logical specifications of classes of regular languages. (English summary) **2004d:68075**
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Safin, K. L. (*with* Sukhanov, E. V.) On iterative algebras without projections. (Russian. Russian summary) **2004c:08008**
Shalit, Steven *see* **van Breugel, Franck et al.**
Sukhanov, E. V. *see* **Safin, K. L., 2004c:08008**
Volkov, Mikhail V. *see* **Bulatov, Andrei A. et al., 2004j:68160**
Wismath, Shelly L. *see* **Denecke, Klaus, 2004c:08004** *and* **2004m:08006**
Worrell, James *see* **van Breugel, Franck et al.**
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Zhurkov, S. V. (*with* Pinus, A. G.) On automorphisms of scales of computability potentials of n-element algebras. (Russian. Russian summary) **2004d:08006**

08A72 Fuzzy algebraic structures

Buckley, James J. (*with* Eslami, Esfandiar) Fuzzy Markov chains: uncertain probabilities. (English summary) **2004b:08005**
Cattaneo, Gianpiero (*with* Ciucci, Davide) Shadowed sets and related algebraic structures. (English summary) **2004h:08007**
Chen, Wenyi (*with* Liu, Wen Bin[2]) Some results of k-transitive matrices. (Chinese. English and Chinese summaries)
Ciucci, Davide *see* **Cattaneo, Gianpiero, 2004h:08007**
Dudek, Wiesław A. (*with* Hong, Sung Min; Jun, Young Bae) Fuzzy set theory applied to incline algebras. (English summary)
Eslami, Esfandiar *see* **Buckley, James J., 2004b:08005**
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— (*with* Plávka, Ján) Strong regularity of matrices in general max-min algebra. (English summary) **2004g:08003**
Hong, Sung Min *see* **Dudek, Wiesław A. et al.**
Jun, Young Bae (*with* Song, Seok Zun) Fuzzy n-fold positive implicative filters in lattice implication algebras. (English summary) **2004f:08004**
— *see also* **Dudek, Wiesław A. et al.**
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Kim, Yong Chan[2] (*with* Ko, Jung Mi) Fuzzy closure systems and fuzzy closure operators. (English summary) **2004j:08005**
Ko, Jung Mi *see* **Kim, Yong Chan[2], 2004j:08005**
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Murthy, Nistala V. E. S. Is the class of all fuzzy rings a fuzzy HSP-class? (English summary) **2004f:08006**
Pan, WuMing *see* **Pei, Zheng et al., 2004b:08006**
Pei, Zheng (*with* Pan, WuMing; Xu, Yang[1]; Qin, Ke Yun) On some properties of fuzzy T^*-algebras and fuzzy F^*-algebras. (English summary) **2004b:08006**
Peng, Jia Yin Fuzzy synchronous codes. (Chinese. English and Chinese summaries)
Plávka, Ján *see* **Gavalec, Martin, 2004g:08003**
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08B20 Free algebras

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08Cxx Other classes of algebras

08C05 Categories of algebras [see also 18C05]

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08C15 Quasivarieties

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Elgueta, Raimon Review of *Protoalgebraic logics* by J. Czelakowski [Kluwer Acad. Publ., Dordrecht, 2001; MR 2002f:03001].
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11–XX Number theory

11–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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11–01 Instructional exposition (textbooks, tutorial papers, etc.)

Davidoff, Giuliana (*with* Sarnak, Peter; Valette, Alain) ★ Elementary number theory, group theory, and Ramanujan graphs. **2004f:11001**
Jiang, Chun Xuan ★ Foundations of Santilli's isonumber theory. **2004c:11001**
Moreira, Carlos Gustavo T. de A. ★ Introdução à teoria dos números. (Portuguese) [Introduction to number theory]
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(Berline, Nicole) *see* **Zeta functions, 2004j:11097**
(Dyson, Freeman J.) *see* **Havil, Julian, 2004k:11195**
van Es, André The evolution of mathematical concepts: an essay on analogy in mathematics. (English summary) **2004g:00002**
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Sabbagh, Karl ★ The Riemann hypothesis. **2004c:01027**
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Stopple, Jeffrey ★ A primer of analytic number theory. **2004m:11143**
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11–02 Research exposition (monographs, survey articles)

Arnoux, P. (*with* Berthé, V.) Some open problems. (*see* **2004c:37005**)
Berthé, V. *see* **Arnoux, P., (2004c:37005)**
Jameson, G. J. O. ★ The prime number theorem. **2004c:11002**
Pan, Cheng Biao The influence of the school of Russian number theorists on the advancement of analytic number theory research in China. **2004e:11001**

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Arkhipov, G. I. (*with* Chubarikov, V. N.) On the development of the method of trigonometric sums. (Russian. English and Russian summaries) **2004g:11068**
Bombieri, Enrico Forty years of effective results in Diophantine theory. **2004c:11126**
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(Wang, Yuan[1]) *see* **Goldbach conjecture, 2004c:11187**
Wüstholz, Gisbert One century of logarithmic forms. **2004c:11132**
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11–03 Historical (must also be assigned at least one classification number from Section 01)

Derbyshire, John ★ Prime obsession. **2004d:11001**
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Koch, Helmut V. The history of algebraic number theory and its reflection at the International Congresses of Mathematicians. (English summary) **2004k:11001**
Luo, Jian Jin On the development of the formulae for sums of powers of integers. (English summary) **2004m:11001**
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— *see also* **Roquette, Peter, 2004i:11136**
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(Euler, Leonhard) *see* **Ramachandra, Kanakanahalli, 2004g:11086**
(Faggot, Jacob) *see* **Stewart, Ian N.**
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— *see also* **Berndt, Bruce C. et al., 2004m:01029**
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Hlawka, Edmund ★ Edmund Hlawka. (German) **2004e:01066**
Postnikov, Alekseĭ Georgievich *see* **Mineev, M. P. et al., 2004e:01050**
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Swinnerton-Dyer, H. P. F. *see* **Birch, B. J. et al., (2004k:00024)**
Biography:
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Birthday:
Swinnerton-Dyer, H. P. F. *see* **Birch, B. J. et al., (2004k:00024)**
Collected Works:
Shimura, Goro *see* **Shimura, Goro, 2004g:01046a; 2004g:01046b; 2004g:01046c** *and* **2004g:01046d**
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11–04 Explicit machine computation and programs (not the theory of computation or programming)

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11–06 Proceedings, conferences, collections, etc.

(Amoroso, Francesco) *see* **Masser, D. W. et al., 2004f:11002**

(Arkhipov, G. I.) *see* **Conference: Modern Problems of Number Theory and its Applications: Current Problems, 2004b:11004; 2004b:11005** *and* **2004b:11006**

(Baeza, Ricardo) *see* **Algebraic and arithmetic theory of quadratic forms, 2004k:11002**

Bege, Antal (*with* Demeter, Albert; Lukács, Andor) ★ Számelméleti feladatgyűjtemény. (Hungarian) [A collection of problems in number theory]

(Chebyshev, P. L.) *see* **Conference: Modern Problems of Number Theory and its Applications: Current Problems, 2004b:11004; 2004b:11005; 2004b:11006** *and* **Proceedings: Conference "Modern Problems of Number Theory and its Applications"**

(Chubarikov, V. N.) *see* **Conference: Modern Problems of Number Theory and its Applications: Current Problems, 2004b:11004; 2004b:11005; 2004b:11006** *and* **Proceedings: Conference "Modern Problems of Number Theory and its Applications"**

(Chudnovsky, David) *see* **Number theory, 2004j:11003**

(Chudnovsky, Gregory) *see* **Number theory, 2004j:11003**

(Cremona, John E.) *see* **Modular curves and abelian varieties, 2004k:11004**

Demeter, Albert *see* **Bege, Antal et al.**

(Fieker, Claus) *see* **Algorithmic number theory, 2004j:11002**

(Golomb, Solomon W.) *see* **Mathematical properties of sequences and other combinatorial structures, 2004d:11002**

(Hashimoto, Ki-ichiro) *see* **Galois theory and modular forms, 2004k:11003**

(Helleseth, Tor) *see* **Mathematical properties of sequences and other combinatorial structures, 2004d:11002**

(Hsia, John S.) *see* **Algebraic and arithmetic theory of quadratic forms, 2004k:11002**

(Jacob, William B.) *see* **Algebraic and arithmetic theory of quadratic forms, 2004k:11002**

(Kohel, David R.) *see* **Algorithmic number theory, 2004j:11002**

(Kumar, P. Vijay) *see* **Mathematical properties of sequences and other combinatorial structures, 2004d:11002**

(Lario, Joan-Carles) *see* **Modular curves and abelian varieties, 2004k:11004**

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Masser, D. W. (*with* Nesterenko, Yu. V.; Schlickewei, Hans Peter; Schmidt, Wolfgang M.; Waldschmidt, Michel) ★ Diophantine approximation. **2004f:11002**

(Miyake, Katsuya) *see* **Galois theory and modular forms, 2004k:11003**

(Mullen, Gary L.) *see* **Finite fields with applications to coding theory, cryptography and related areas, 2004c:11003**

(Nakamura, Hiroaki[1]) *see* **Galois theory and modular forms, 2004k:11003**

(Nathanson, Melvyn B.) *see* **Number theory, 2004j:11003** *and* **Unusual applications of number theory, 2004m:11002**

Nesterenko, Yu. V. *see* **Masser, D. W. et al., 2004f:11002**

(No, Jong-Seon) *see* **Mathematical properties of sequences and other combinatorial structures, 2004d:11002**

(Poonen, Bjorn) *see* **Arithmetic of higher-dimensional algebraic varieties, 2004h:11001**

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Schlickewei, Hans Peter *see* **Masser, D. W. et al., 2004f:11002**

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(Song, Hong-Yeop) *see* **Mathematical properties of sequences and other combinatorial structures, 2004d:11002**

(Stichtenoth, Henning) *see* **Finite fields with applications to coding theory, cryptography and related areas, 2004c:11003**

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(Tschinkel, Yuri) *see* **Arithmetic of higher-dimensional algebraic varieties, 2004h:11001**

(Venkataramana, T. N.) *see* **Cohomology of arithmetic groups, *L*-functions and automorphic forms, 2004b:11003**

(Vinogradov, I. M.) *see* **Conference: Modern Problems of Number Theory and its Applications: Current Problems, 2004b:11004; 2004b:11005; 2004b:11006** *and* **Proceedings: Conference "Modern Problems of Number Theory and its Applications"**

Waldschmidt, Michel *see* **Masser, D. W. et al., 2004f:11002**

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Algebraic and arithmetic theory of quadratic forms ★ Algebraic and arithmetic theory of quadratic forms. **2004k:11002**

Algebraic number theory and related topics ★ Daisūteki seisū ron to sono shūhen. [Algebraic number theory and related topics]

Algorithmic number theory ★ Algorithmic number theory. **2004j:11002**

Anniversary:

Birth of Chebyshev, Pafnutiĭ L'vovich ★ Труды IV Международной Конференции "Современные Проблемы Теории Чисел и ее Приложения". (Russian) [Proceedings of the IV International Conference "Modern Problems of Number Theory and its Applications"]

— ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть I. (Russian) [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part I] **2004b:11004**

Anniversary: (*cont'd.*)

— ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть II. [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part II] **2004b:11005**

— ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть III. (Russian) [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part III] **2004b:11006**

Birth of Vinogradov, Ivan Matveevich ★ Труды IV Международной Конференции "Современные Проблемы Теории Чисел и ее Приложения". (Russian) [Proceedings of the IV International Conference "Modern Problems of Number Theory and its Applications"]

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— ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть II. [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part II] **2004b:11005**

— ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть III. (Russian) [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part III] **2004b:11006**

Arithmetic of higher-dimensional algebraic varieties ★ Arithmetic of higher-dimensional algebraic varieties. **2004h:11001**

Bellaterra ★ Modular curves and abelian varieties. **2004k:11004**

Besançon ★ Théorie des nombres. (French) [Number theory] **2004c:11004**

Cetraro *see* **Masser, D. W. et al., 2004f:11002**

Cohomology of arithmetic groups, *L*-functions and automorphic forms ★ Cohomology of arithmetic groups, *L*-functions and automorphic forms. **2004b:11003**

Conference:

Arithmetic ★ {Les XXIIèmes Journées Arithmetiques}. [The XXII Conference on Arithmetic]

Finite Fields and Applications ★ Finite fields with applications to coding theory, cryptography and related areas. **2004c:11003**

Modern Problems of Number Theory and its Applications: Current Problems ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть I. (Russian) [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part I] **2004b:11004**

— ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть II. [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part II] **2004b:11005**

— ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть III. (Russian) [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part III] **2004b:11006**

Contemporary Mathematics ★ Algebraic and arithmetic theory of quadratic forms. **2004k:11002**

Diophantine approximation *see* **Masser, D. W. et al., 2004f:11002**

Festschrift:

Golomb, Solomon W. ★ Mathematical properties of sequences and other combinatorial structures. **2004d:11002**

Finite fields with applications to coding theory, cryptography and related areas ★ Finite fields with applications to coding theory, cryptography and related areas. **2004c:11003**

Galois theory and modular forms ★ Galois theory and modular forms. **2004k:11003**

Lecture Notes in Computer Science ★ Algorithmic number theory. **2004j:11002**

Lecture Notes in Mathematics *see* **Masser, D. W. et al., 2004f:11002**

Lille ★ {Les XXIIèmes Journées Arithmetiques}. [The XXII Conference on Arithmetic]

Los Angeles, CA ★ Mathematical properties of sequences and other combinatorial structures. **2004d:11002**

Mathematical properties of sequences and other combinatorial structures ★ Mathematical properties of sequences and other combinatorial structures. **2004d:11002**

Modular curves and abelian varieties ★ Modular curves and abelian varieties. **2004k:11004**

Mumbai ★ Cohomology of arithmetic groups, *L*-functions and automorphic forms. **2004b:11003**

New York ★ Number theory. **2004j:11003**

Number theory ★ Théorie des nombres. Années 1998/2001. (French) [Number theory. 1998/2001] **2004a:11001**

— ★ Théorie des nombres. (French) [Number theory] **2004c:11004**

— ★ Number theory. **2004j:11003**

Oaxaca ★ Finite fields with applications to coding theory, cryptography and related areas. **2004c:11003**

Palo Alto, CA ★ Arithmetic of higher-dimensional algebraic varieties. **2004h:11001**

Piscataway, NJ ★ Unusual applications of number theory. **2004m:11002**

Problems:

Number theory *see* **Bege, Antal et al.**

Proceedings:

Conference "Algebra and Number Theory: Modern Problems and Applications" ★ Труды V Международной Конференции "Алгебра и Теория Чисел: Современные Проблемы и Приложения". (Russian) [Proceedings of the V International Conference "Algebra and Number Theory: Modern Problems and Applications"]

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Progress in Mathematics ★ Arithmetic of higher-dimensional algebraic varieties.

2004h:11001

— ★ Modular curves and abelian varieties. **2004k:11004**

Pucón ★ Algebraic and arithmetic theory of quadratic forms. **2004k:11002**

Sydney ★ Algorithmic number theory. **2004j:11002**

Talca ★ Algebraic and arithmetic theory of quadratic forms. **2004k:11002**

Théorie des nombres ★ Théorie des nombres. Années 1998/2001. (French) [Number theory. 1998/2001] **2004a:11001**

— ★ Théorie des nombres. (French) [Number theory] **2004c:11004**

Tokyo ★ Galois theory and modular forms. **2004k:11003**

Tula ★ Труды IV Международной Конференции "Современные Проблемы Теории Чисел и ее Приложения". (Russian) [Proceedings of the IV International Conference "Modern Problems of Number Theory and its Applications"]

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— ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть II. [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part II] **2004b:11005**

— ★ IV Международная Конференция "Современные Проблемы Теории Чисел и ее Приложения": Актуальные Проблемы. Часть III. (Russian) [IV International Conference "Modern Problems of Number Theory and its Applications": Current Problems. Part III] **2004b:11006**

— ★ Труды V Международной Конференции "Алгебра и Теория Чисел: Современные Проблемы и Приложения". (Russian) [Proceedings of the V International Conference "Algebra and Number Theory: Modern Problems and Applications"]

Unusual applications of number theory ★ Unusual applications of number theory. **2004m:11002**

Workshop:

Rational and Integral Points of Higher-Dimensional Varieties ★ Arithmetic of higher-dimensional algebraic varieties. **2004h:11001**

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(Berline, Nicole) *see* **Zeta functions, 2004j:11097**

(Berndt, Bruce C.) *see* **Rankin memorial issues**

(Bernstein, Joseph) *see* **Bump, Daniel et al., 2004g:11037**

(Bezverkhniĭ, V. N.) *see* **Proceedings: Conference "Modern Problems of Number Theory and its Applications"**

(Bhandari, Ashwani K.) *see* **Elliptic curves, modular forms and cryptography, 2004m:11085**

(Bloch, Spencer J.) *see* **Birthday: Kato, Kazuya**

(Bogomolov, Fedor) *see* **Motives, polylogarithms and Hodge theory, 2004a:00019**

Bump, Daniel (*with* Cogdell, James W.; de Shalit, Ehud; Gaitsgory, Dennis; Kowalski, Emmanuel; Kudla, Stephen S.) ★ An introduction to the Langlands program. **2004g:11037**

(Chebyshev, P. L.) *see* **Proceedings: Conference "Modern Problems of Number Theory and its Applications"**

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Gaitsgory, Dennis *see* **Bump, Daniel et al., 2004g:11037**

(Gelbart, Stephen) *see* **Bump, Daniel et al., 2004g:11037**

(Illusie, Luc) *see* **Birthday: Kato, Kazuya**

(Kato, Kazuya) *see* **Birthday: Kato, Kazuya**

(Katzarkov, Ludmil) *see* **Motives, polylogarithms and Hodge theory, 2004a:00019**

(Kiss, Péter) *see* **Dedicated to the memory of Professor Dr. Péter Kiss**

(Korobov, Nikolaĭ Mikhaĭlovich) *see* **Dedicated to the 85th birthday of Nikolaĭ Mikhaĭlovich Korobov**

Kowalski, Emmanuel *see* **Bump, Daniel et al., 2004g:11037**

Kudla, Stephen S. *see* **Bump, Daniel et al., 2004g:11037**

(Kurihara, Masato) *see* **Birthday: Kato, Kazuya**

(Lê Hùng So'n) *see* **Finite or infinite dimensional complex analysis and applications, 2004k:00017**

(Lewis, James D.) *see* **Calabi-Yau varieties and mirror symmetry, 2004f:14001**

Munemasa, Akihiro (*with* Nebe, Gabriele; Solé, Patrick) Editorial: Arithmétique et combinatorie. (English) [Editorial: Arithmetic and combinatorics]

(Nagaraj, D. S.) *see* **Elliptic curves, modular forms and cryptography, 2004m:11085**

Nebe, Gabriele *see* **Munemasa, Akihiro et al.**

(Ono, Ken) *see* **Rankin memorial issues**

(Ramakrishnan, B.) *see* **Elliptic curves, modular forms and cryptography, 2004m:11085**

(Rankin, Robert A.) *see* **Rankin memorial issues**

(Reid, Miles) *see* **Number theory and algebraic geometry, 2004k:00024**

(Sabbah, Claude) *see* **Zeta functions, 2004j:11097**

(Saito, Shuji[1]) *see* **Birthday: Kato, Kazuya**

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de Shalit, Ehud *see* **Bump, Daniel et al., 2004g:11037**

(Skorobogatov, A. N.) *see* **Number theory and algebraic geometry, 2004k:00024**

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(Swinnerton-Dyer, H. P. F.) *see* **Number theory and algebraic geometry, 2004k:00024**

(Tutschke, Wolfgang) *see* **Finite or infinite dimensional complex analysis and applications, 2004k:00017**

(Venkataramana, T. N.) *see* **Elliptic curves, modular forms and cryptography, 2004m:11085**

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Allahabad ★ Elliptic curves, modular forms and cryptography. **2004m:11085**

Anniversary:

Birth of Chebyshev, Pafnutĭ L′vovich ★ Труды IV Международной Конференции "Современные Проблемы Теории Чисел и ее Приложения". (Russian) [Proceedings of the IV International Conference "Modern Problems of Number Theory and its Applications"]

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Birthday:

Kato, Kazuya ★ Kazuya Kato's fiftieth birthday.

Calabi-Yau varieties and mirror symmetry ★ Calabi-Yau varieties and mirror symmetry. **2004f:14001**

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Dedicated to the 85th birthday of Nikolaĭ Mikhaĭlovich Korobov ★ 85-летию со дня рождения Николая Михайловича Коробова посвящается. (Russian) [Dedicated to the 85th birthday of Nikolaĭ Mikhaĭlovich Korobov]

Dedicated to the memory of Professor Dr. Péter Kiss ★ {Dedicated to the memory of Professor Dr. Péter Kiss}.

Elliptic curves, modular forms and cryptography ★ Elliptic curves, modular forms and cryptography. **2004m:11085**

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Finite or infinite dimensional complex analysis and applications ★ Finite or infinite dimensional complex analysis and applications. **2004k:00017**

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Jerusalem *see* **Bump, Daniel et al., 2004g:11037**

Memorial Issue:

Rankin, Robert Alexander ★ Rankin memorial issues.

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Toronto, ON ★ Calabi-Yau varieties and mirror symmetry. **2004f:14001**

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Workshop:

Algebraic Number Theory ★ Elliptic curves, modular forms and cryptography. **2004m:11085**

Arithmetic, Geometry and Physics around Calabi-Yau Varieties and Mirror Symmetry ★ Calabi-Yau varieties and mirror symmetry. **2004f:14001**

Zeta functions ★ La fonction zêta. (French) [Zeta functions] **2004j:11097**

11Axx Elementary number theory {For analogues in number fields, see 11R04.}

11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors

Beato Sirvent, Jesús Periods. (Spanish. Spanish summary) **2004d:11003**

Cégielski, Patrick (*with* Heroult, François; Richard, Denis) On the amplitude of intervals of natural numbers whose every element has a common prime divisor with at least an extremity. (English and French summaries) **2004g:11001**

Dragović, Branko G. On some finite sums with factorials. (English summary) **2004f:11003**

Heroult, François *see* **Cégielski, Patrick et al., 2004g:11001**

Luca, Florian On the greatest common divisor of two Cullen numbers. **2004i:11001**

Nahir, Ya'akov Tests of divisibility. (English summary)

Richard, Denis *see* **Cégielski, Patrick et al., 2004g:11001**

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(Baica, Malvina) *see* **Crstici, Borislav D.**

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Haukkanen, Pentti *see* **Korkee, Ismo, 2004e:15023**

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Korkee, Ismo (*with* Haukkanen, Pentti) On meet and join matrices associated with incidence functions. (English summary) **2004e:15023**
Nalli, Ayşe An inequality for the determinant of the GCD-reciprocal LCM matrix and the GCUD-reciprocal LCUM matrix. (English summary)
— (*with* Taşçi, Dursun) On the GCUD-reciprocal LCUM matrices. (English summary) **2004e:11024**
Sun, Cui Fang Notes on the binary GCD algorithm. (Chinese. English summary)
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Vladimirov, Vasiliĭ Sergeevich Left factorials, Bernoulli numbers, and the Kurepa conjecture. (Russian. Russian summary) **2004f:11017**

11A07 Congruences; primitive roots; residue systems

Arnol'd, V. I. The Fermat-Euler dynamical system and the statistics of the arithmetic of geometric progressions. (Russian. Russian summary) **2004k:11005**
Cai, Tianxin On some Wolstenholme-type theorems. (English summary) **2004e:11002**
— (*with* García-Pulgarín, Gilberto) On selecting balls from an n-circle without q-separation and Lucas numbers. (English summary) **2004e:11003**
Danas, George *see* **Terzidis, Haralambos**, **2004j:11004**
García-Pulgarín, Gilberto *see* **Cai, Tianxin**, **2004e:11003**
Khan, Mizan R. (*with* Shparlinski, Igor E.) On the maximal difference between an element and its inverse modulo n. (English summary) **2004k:11006**
Shparlinski, Igor E. *see* **Khan, Mizan R.**, **2004k:11006**
Sun, Zhi-Hong Cubic and quartic congruences modulo a prime. (English summary) **2004e:11004**
— *see also* **Errata: "Cubic and quartic congruences modulo a prime"**
Terzidis, Haralambos (*with* Danas, George) The periods of the inverses of integers. (English summary) **2004j:11004**
Trevisan, Vilmar (*with* Weber, Kenneth) Testing the converse of Wolstenholme's theorem. (English and Portuguese summaries) **2004h:11002**
Weber, Kenneth *see* **Trevisan, Vilmar**, **2004h:11002**
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Gekeler, Ernst-Ulrich A series of new congruences for Bernoulli numbers and Eisenstein series. (English summary) **2004b:11022**
Gulliver, T. Aaron Divisibility of sums of powers of integers. (English summary) **2004f:11150**
Jung, Soon-Mo On some congruence with application to exponential sums. (English summary) **2004m:11124**
Křížek, Michal (*with* Somer, Lawrence) A necessary and sufficient condition for the primality of Fermat numbers. (English summary) **2004a:11004**
— (*with* Somer, Lawrence) 17 necessary and sufficient conditions for the primality of Fermat numbers. (English summary) **2004k:11012**
Kueh, Ka-Lam *see* **Garaev, M. Z.**, **2004m:11157**
Li, Hai Long² (*with* Zhang, Wen Peng) On the special solutions of an equation in a finite field. (English summary) **2004b:11163**
Luca, Florian (*with* Stănică, Pantelimon) Products of factorials modulo p. (English summary) **2004j:11115**
McLaughlin, Philip B., Jr. New frameworks for Montgomery's modular multiplication method. (English summary) **2004j:11149**
Miller, David F. Relaxed simultaneous congruences. (English summary) **2004g:94100**
Moree, Pieter Asymptotically exact heuristics for (near) primitive roots. II. (English summary) **2004m:11188**
Moshchevitin, N. G. On numbers with missing digits: an elementary proof of a result of S. V. Konyagin. (Russian) **2004k:11015**
Porubský, Štefan (*with* Schönheim, Johanan) Covering systems of Paul Erdős. Past, present and future. (English summary) **2004d:11006**
— (*with* Schönheim, Johanan) Old and new necessary and sufficient conditions on (a_i, m_i) in order that $n \equiv a_i \pmod{m_i}$ be a covering system. (English summary) **2004j:11013**
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11A15 Power residues, reciprocity

Kim, Sey Y. An elementary proof of the quadratic reciprocity law.
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Berry, T. G. *see* **Berrizbeitia, Pedro**, **2004m:11005**
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Preobrazhenskiĭ, S. N. On the least nonresidue in arithmetic sequences. (Russian) **2004i:11111**
Sekine, Chizuru Dedekind sums with roots of unity and their reciprocity law. **2004i:11038**
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"Cubic and quartic congruences modulo a prime" Erratum to: "Cubic and quartic congruences modulo a prime" [J. Number Theory **102** (2003), no. 1, 41–89] by Z.-H. Sun.

11A25 Arithmetic functions; related numbers; inversion formulas

Achari, C. T. S. (*with* Mallikarjuna Prasad, A. V.) On an extension of totient functions for polynomials and allied sums.
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Atanassov, Krassimir T. Remarks on φ, σ, ψ and ρ functions.
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— *see also* **Iannucci, Douglas E. et al.**, **2004k:11007**
Davis, Simon A rationality condition for the existence of odd perfect numbers. (English summary) **2004b:11007**
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Iannucci, Douglas E. (*with* Deng, Moujie; Cohen, Graeme L.) On perfect totient numbers. (English summary) **2004k:11007**
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Sitaramaiah, Varanasi *see* **Nicolas, Jean-Louis, 2004k:11008**
Sorli, Ronald M. *see* **Iannucci, Douglas E., 2004b:11008** *and* **Cohen, Graeme L., 2004h:11003**
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— *see also* **Sándor, József**
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Bucur, Gheorghe *see* **Boboc, Nicu, 2004m:31008**
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Ewell, John A. On two arithmetical functions. (English summary) **2004k:11047**
Gimbel, Steven (*with* Jaroma, John H.) Sylvester: ushering in the modern era of research on odd perfect numbers. (English summary) **2004k:01034**
Holt, Jeffrey J. The minimal number of solutions to $\varphi(n) = \varphi(n+k)$. (English summary) **2004c:11171**
Hong, Shaofang Factorization of matrices associated with classes of arithmetical functions. (English summary) **2004j:11027**
— Notes on power LCM matrices. **2004j:11028**
Iannucci, Douglas E. *see* **Cohen, Graeme L., 2004a:11139**
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11A41 Primes

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Gica, Alexandru A result similar to a theorem of Fermat. (English summary) **2004h:11008**
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11A99 None of the above, but in this section

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11Bxx Sequences and sets

11B05 Density, gaps, topology

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Lev, Vsevolod F. Blocks and progressions in subset sums sets. (English summary) **2004e:11010**
Luca, Florian On positive numbers n for which $\Omega(n)$ divides F_n. **2004h:11006**
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11B13 Additive bases [see also 05B10]

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Helou, C. *see* **Grekos, Georges et al., 2004j:11011**
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Freiman, Gregory A. Structure theory of set addition. II. Results and problems. **2004c:11190**
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Máčaj, Martin (*with* Paštéka, Milan; Šalát, Tibor; Žabka, Marek[2]) On difference sets of sets of positive integers. (English summary) **2004h:11010**
Paštéka, Milan *see* **Máčaj, Martin et al., 2004h:11010**
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11B25 Arithmetic progressions [see also 11N13]

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Chin, A. Y. M. Exhaustion numbers of subsets of abelian groups. (English summary) **2004c:11014**
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11B34 Representation functions

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11B57 Farey sequences; the sequences $1^k, 2^k, \cdots$

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11B65 Binomial coefficients; factorials; q-identities [see also 05A10, 05A30]

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11B68 Bernoulli and Euler numbers and polynomials

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11B73 Bell and Stirling numbers

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11B85 Automata sequences

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11Cxx Polynomials and matrices

11C08 Polynomials [see also 13F20]

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Boutabaa, Abdelbaki (*with* Escassut, Alain; Cherry, William A.) Unique range sets in positive characteristic. (English summary) **2004j:30044**
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Cai, Jin-Yi (*with* Bach, Eric) On testing for zero polynomials by a set of points with bounded precision. (English summary) **2004m:68279**
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— An irreducibility criterion for composition of polynomials. (English summary) **2004i:11128**
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11C20 Matrices, determinants [see also 15A36]

Büyükköse, Şerife On the GCD-Mersenne GCD matrices. (English summary) **2004f:11023**
Hong, Shaofang Factorization of matrices associated with classes of arithmetical functions. (English summary) **2004j:11027**
— Divisibility of determinants of least common multiple matrices on GCD-closed sets. (English summary) **2004k:11031**
— Notes on power LCM matrices. **2004j:11028**
Nalli, Ayşe An inequality for the determinant of the GCD-reciprocal LCM matrix and the GCUD-reciprocal LCUM matrix. (English summary)
— (*with* Taşçi, Dursun) On the GCUD-reciprocal LCUM matrices. (English summary) **2004e:11024**
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Nanda, V. C. On the gcd and lcm of matrices over Dedekind domains. **2004i:11022**
Song, Hai Zhou Structure of the greatest common divisors of matrices. (Chinese. English and Chinese summaries)
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— *see also* **Divišová, Z. et al., 2004e:11128**
Kuperberg, Greg Symmetry classes of alternating-sign matrices under one roof. (English summary) **2004c:05013**
Liu, Mai-xue (*with* Zhang, Hai-mo) A general representation of Hankel matrix about Bell numbers. (English summary) **2004j:11021**
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11Dxx Diophantine equations [see also 11Gxx, 14Gxx]

11D04 Linear equations

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Komatsu, Takao[2] On the number of solutions of the Diophantine equation of Frobenius—general case. (English summary) **2004m:11036**
Krivoĭ, S. L. Compatibility of systems of linear constraints over the set of natural numbers. (Russian. English and Ukrainian summaries) **2004b:11032**
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Bagheri, Mohammad (*with* Dastranj, Nader; Jandaghi, Gholamreza) A public-key cryptosystem based on Diophantine equations. (English summary) **2004e:94030**
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11D09 Quadratic and bilinear equations

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— The Diophantine equation $ax^2 + 2bxy - 4ay^2 = \pm 1$. (English summary) **2004g:11018**
Barbeau, Edward J. ★ Pell's equation. **2004f:11024**
Bircan, Nihal (*with* Senay, Hasan) The relation between negative Pell equation and triangular numbers. (English summary)
Cheng, Kell Hiu Fai *see* **Mollin, Richard A. et al., 2004c:11031**
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Dujella, Andrej There are only finitely many Diophantine quintuples. (English summary) **2004m:11037**
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Gopalan, M. A. (*with* Ganapathy, R.; Krishnamurthy, A.) Note on double equations of the first degree.
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— (*with* Devibala, S.) Note on the double equation $\sum_{i=1}^{3} x_i^h = \sum_{i=1}^{3} X_i^h$, $h = 1, 2$.
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Lin, Qiang[1] (*with* Ono, Takashi) On two questions of Ono. (English summary) **2004g:11019**
Mathews, Daniel Quadratic geography, algebraic extreme sports and magical Farey trees.
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Ono, Takashi *see* **Lin, Qiang[1], 2004g:11019**
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Richner, Dan *see* **Elliott, Norman E.**
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Zhu, Xiao-lin A Diophantine equation in combinatorial theory. (English and Chinese summaries) **2004c:11032**

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Dujella, Andrej (*with* Fuchs, Clemens) A polynomial variant of a problem of Diophantus and Euler. (English summary) **2004j:11030**
Fuchs, Clemens *see* **Dujella, Andrej, 2004j:11030**
Gica, Alexandru A result similar to a theorem of Fermat. (English summary) **2004h:11008**
Gocheva-Ilieva, Snezhana (*with* Kilimova, Hristina; Malinova, Anna) Constructing Diophantine carpets.
Hoshi, Akinari Multiplicative quadratic forms on algebraic varieties. (English summary) **2004b:11042**
Jozsa, Richard Quantum computation in algebraic number theory: Hallgren's efficient quantum algorithm for solving Pell's equation. (English summary) **2004f:11148**
Kilimova, Hristina *see* **Gocheva-Ilieva, Snezhana et al.**
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Mátyás, Ferenc Second order linear recurrences and Pell's equations of higher degree. (English summary) **2004f:11010**
Mc Laughlin, James Multi-variable polynomial solutions to Pell's equation and fundamental units in real quadratic fields. (English summary) **2004j:11129**
Ribenboim, Paulo The terms Cx^h $(h \geq 3)$ in Lucas sequences: an algorithm and applications to Diophantine equations. **2004h:11015**
Rusin, D. *see* **Cremona, John E., 2004a:11137**
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Steuding, Jörn (*with* Šleževičienė, Rasa) Factoring with continued fractions, the Pell equation, and weighted mediants. (English and Lithuanian summaries) **2004j:11007**
Stillwell, John C. ★ Elements of number theory. (English summary) **2004j:11001**
Yuan, Pingzhi On the number of solutions of $x^2 - 4m(m+1)y^2 = y^2 - bz^2 = 1$. (English summary) **2004m:11043**
Zhuravlev, V. G. Deformations of quadratic Diophantine systems. (Russian. Russian summary) **2004a:11028**

11D25 Cubic and quartic equations

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— (*with* Andrica, Dorin) On a Diophantine equation and its ramifications.
Andrica, Dorin *see* **Andreescu, Titu**
Arpaia, Pasquale J. Generating solutions for a special class of Diophantine equations. II.
Bremner, Andrew A Diophantine system. (*see* **2004k:00024**)
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— On a quartic Diophantine equation. (English summary)
Devibala, S. *see* **Gopalan, M. A. et al.**
Dujella, Andrej (*with* Fuchs, Clemens) A polynomial variant of a problem of Diophantus and Euler. (English summary) **2004j:11030**
Elia, Michele Observations on some algebraic equations associated with Ramanujan's work. (English summary) **2004d:11018**
Fuchs, Clemens *see* **Dujella, Andrej, 2004j:11030**
Ganapathy, R. *see* **Gopalan, M. A.**
Gopalan, M. A. (*with* Ganapathy, R.) A remark of linear functions made cubes.
— (*with* Devibala, S.) Note on the double equation $\sum_{i=1}^{3} x_i^h = \sum_{i=1}^{3} X_i^h$, $h = 1, 3$.
— (*with* Venkatachalapathy, M.) Note on the cubic Diophantine equation $x^3 + y - 1 = xyz$.
— (*with* Venkatachalapathy, M.; Devibala, S.) On the system $b - a = d^2$, $b^3 - a^3 = y^2$. (English summary)
— (*with* Mythili, V.) On the quartic equation $x^4 - (2y + c)x^2 - bx + y^2 - y = 0$. (English summary)
Grundman, Helen G. (*with* Hall, L. L.) New solutions to $xyz = x + y + z = 1$ in integers of quartic fields. **2004m:11040**
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Herrmann, Emanuel (*with* Luca, Florian; Walsh, P. Gary) A note on the Ramanujan-Nagell equation. (English summary) **2004k:11033**
Katayama, Shin-Ichi (*with* Levesque, Claude) On simultaneous Diophantine equations. **2004b:11033**
Le, Mao Hua On Ribenboim's problem concerning Pell sequences. (Chinese. English and Chinese summaries) **2004b:11034**
Levesque, Claude *see* **Katayama, Shin-Ichi, 2004b:11033**
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Notari, Charles Une résolution élémentaire de l'équation diophantienne $x^3 = y^2 - 1$. (English summary) [An elementary solution of the Diophantine equation $x^3 = y^2 - 1$]
Samuel, Pierre Résultats élémentaires sur certaines équations diophantiennes. (English and French summaries) [Elementary results for some Diophantine equations] **2004m:11041**
Singh, Deo Narayan A quartic Diophantine equation. (English summary)
Siva Rama Prasad, V. (*with* Srinivasa Rao, B.) Triangular numbers in the associated Pell sequence and Diophantine equations $x^2(x+1)^2 = 8y^2 \pm 4$. **2004c:11033**
Slavov, Kaloyan St. On the unicity conjecture for the Hurwitz equation. (English and Bulgarian summaries) **2004f:11025**
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Walsh, P. Gary Near squares in linear recurrence sequences. (English summary) **2004i:11024**
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Browning, T. D. Sums of four biquadrates. **2004d:11096**
Campbell, Garikai A note on arithmetic progressions on elliptic curves. (English summary) **2004a:11044**
Heath-Brown, D. R. Rational points and analytic number theory. (English summary) **2004k:11162**
Jacobson, Michael J., Jr. (*with* Pintér, Ákos; Walsh, P. Gary) A computational approach for solving $y^2 = 1^k + 2^k + \cdots + x^k$. (English summary) **2004c:11241**
(Pethő, Attila) *see* **Schmitt, Susanne**, **2004i:11055**
Pintér, Ákos *see* **Jacobson, Michael J., Jr. et al.**, **2004c:11241**
Schmitt, Susanne (*with* Zimmer, Horst G.) ★ Elliptic curves. **2004i:11055**
Srinivasa Rao, B. Heptagonal numbers in the Fibonacci sequence and Diophantine equations $4x^2 = 5y^2(5y-3)^2 \pm 16$.
Tengely, Sz. On the Diophantine equation $F(x) = G(y)$. **2004i:11025**
Walsh, P. Gary *see* **Jacobson, Michael J., Jr. et al.**, **2004c:11241**
Yuan, Pingzhi On the number of solutions of $x^2 - 4m(m+1)y^2 = y^2 - bz^2 = 1$. (English summary) **2004m:11043**
Zimmer, Horst G. *see* **Schmitt, Susanne**, **2004i:11055**

11D41 Higher degree equations; Fermat's equation

Bugeaud, Yann (*with* Dujella, Andrej) On a problem of Diophantus for higher powers. (English summary) **2004b:11035**
Choudhry, Ajai The system of simultaneous equations $\sum_{i=1}^{3} x_i^k = \sum_{i=1}^{3} y_i^k$, $k = 1, 2$ and 5 has no non-trivial solutions in integers. (English summary)
— Triads of biquadrates with equal sums and equal products. (English summary)
— Triads of integers with equal sums of squares, cubes and fourth powers. (English summary) **2004e:11027**
Devibala, S. *see* **Gopalan, M. A.**
Dujella, Andrej *see* **Bugeaud, Yann**, **2004b:11035**
Garaev, M. Z. (*with* Kueh, Ka-Lam) On the equation $x^2 - Ny^n = -1$. (English summary)
Goga, Nicolae A corollary of Fermat's theorem. (English summary)
Gopalan, M. A. (*with* Devibala, S.) Note on the double equations $Y - X = U^2$, $Y^2 + X^2 = U^6$.
Ivorra, Wilfrid Sur les équations $x^p + 2^\beta y^p = z^2$ et $x^p + 2^\beta y^p = 2z^2$. [On the equations $x^p + 2^\beta y^p = z^2$ and $x^p + 2^\beta y^p = 2z^2$] **2004b:11036**
Kirschenhofer, Peter (*with* Pfeiffer, Oliver) Diophantine equations between polynomials obeying second order recurrences. (English summary) **2004k:11034**
Krivoĭ, S. L. (*with* Nevmerzhitskiĭ, A. V.) On the incompatibility of a form of nonlinear equations in the set of natural numbers. (Russian. English, Russian and Ukrainian summaries)
Kueh, Ka-Lam *see* **Garaev, M. Z.**
Levesque, Claude On a few Diophantine equations, in particular, Fermat's last theorem. (English summary) **2004k:11035**
Nevmerzhitskiĭ, A. V. *see* **Krivoĭ, S. L.**
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Poulakis, Dimitrios (*with* Voskos, Evaggelos) On the distribution of integer points of rational curves. (English summary) **2004c:11034**
Rakaczki, Csaba On the Diophantine equation $x(x-1)\cdots(x-(m-1)) = \lambda y(y-1)\cdots(y-(n-1)) + l$. **2004k:11036**
Sah, Bishnudeo *see* **Singh, Mithilesh Kumar**
Shorey, T. N. Powers in arithmetic progression. **2004e:11028**
Singh, Mithilesh Kumar (*with* Sah, Bishnudeo) Fermat's last theorem for integral triangles. (English summary)
Stroeker, R. J. (*with* Tzanakis, N.) Computing all integer solutions of a genus 1 equation. (English summary) **2004b:11037**
Tengely, Sz. On the Diophantine equation $F(x) = G(y)$. **2004i:11025**
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Vassilev-Missana, Mladen V. How Fermat's great theorem helps solving the Diophantine equation $12x^3 - \varphi(y).y^2 = 3.(\varphi(y))^3$. (English summary)
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Wada, Hideo On the Diophantine equation $x(x+1)\cdots(x+n) + 1 = y^2$ ($17 \le n = \text{odd} \le 27$). (English summary) **2004d:11019**
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Bruin, Nils (*with* Flynn, E. V.) n-covers of hyperelliptic curves. (English summary) **2004b:11089**
Cremona, John E. *see* **Siksek, Samir**, **2004c:11109**
Darmon, Henri (*with* Levesque, Claude) Infinite sums, Diophantine equations and Fermat's last theorem. (English summary) **2004c:11086**
Davis, Simon A rationality condition for the existence of odd perfect numbers. (English summary) **2004b:11007**
Flynn, E. V. *see* **Bruin, Nils**, **2004b:11089**
Freeman, D. Eric Additive inhomogeneous Diophantine inequalities. **2004b:11041**
Laurent, Michel (*with* Poulakis, Dimitrios) On the global distance between two algebraic points on a curve. (English summary) **2004k:11120**
Levesque, Claude *see* **Darmon, Henri**, **2004c:11086**
Mátyás, Ferenc Second order linear recurrences and Pell's equations of higher degree. (English summary) **2004f:11010**
Meyrignac, Jean-Charles *see* **Resta, Giovanni**, **2004b:11174**
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Pink, I. On the differences between polynomial values and perfect powers. (English summary) **2004g:11023**
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11D45 Counting solutions of Diophantine equations

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Komatsu, Takao² On the number of solutions of the Diophantine equation of Frobenius—general case. (English summary) **2004m:11036**
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11D57 Multiplicative and norm form equations

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Skałba, Mariusz Products of disjoint blocks of consecutive integers which are powers. (English summary) **2004j:11032**
Stewart, C. L. *see* **Evertse, Jan-Hendrik et al.**, **2004a:11022**
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Trelina, L. A. Cubic irrationalities with a power index. (Russian. English and Russian summaries) **2004g:11096**

11D59 Thue-Mahler equations

Dujella, Andrej (*with* Jadrijević, Borka) A family of quartic Thue inequalities. **2004m:11044**
Jadrijević, Borka *see* **Dujella, Andrej**, **2004m:11044**
Wakabayashi, Isao Cubic Thue inequalities with negative discriminant. (English summary) **2004a:11023**
— On a family of cubic Thue equations with 5 solutions. **2004c:11037**

Items with secondary classifications in 11D59

(Cohn, J. H. E.) *see* **Herrmann, Emanuel et al., 2004m:11046**

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11D61 Exponential equations

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Ailon, Nir (*with* Rudnick, Zéev) Torsion points on curves and common divisors of $a^k - 1$ and $b^k - 1$. **2004m:11045**

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Walsh, P. Gary *see* **Jacobson, Michael J., Jr. et al., 2004c:11241**

11D68 Rational numbers as sums of fractions

Croot, Ernest S., III On a coloring conjecture about unit fractions. (English summary) **2004m:11049**

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Porubský, Štefan (*with* Schönheim, Johanan) Covering systems of Paul Erdős. Past, present and future. (English summary) **2004d:11006**

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11D72 Equations in many variables [see also 11P55]

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Freeman, D. Eric Additive inhomogeneous Diophantine inequalities. **2004b:11041**

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Liu, Tao The representation of even integers by fourth powers. (Chinese. English and Chinese summaries) **2004c:11189**

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Ul′yanov, Vladimir Vasil′evich *see* **Götze, Friedrich et al., 2004f:60071**

11D75 Diophantine inequalities [see also 11J25]

Dietmann, Rainer Cubic forms modulo one. (English summary) **2004k:11040**

Freeman, D. Eric Additive inhomogeneous Diophantine inequalities. **2004b:11041**

Freeman, Eric Systems of diagonal Diophantine inequalities. (English summary) **2004g:11024**

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Corvaja, Pietro *see* **Bugeaud, Yann et al., 2004a:11064**
Dujella, Andrej (*with* Jadrijević, Borka) A family of quartic Thue inequalities. **2004m:11044**
García-García, J. I. *see* **Rosales, J. C. et al., 2004k:20127**
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Poonen, Bjorn Squarefree values of multivariable polynomials. (English summary) **2004d:11094**
Rosales, J. C. (*with* García-Sánchez, P. A.; García-García, J. I.; Urbano-Blanco, J. M.) Proportionally modular Diophantine inequalities. (English summary) **2004k:20127**
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Wakabayashi, Isao Cubic Thue inequalities with negative discriminant. (English summary) **2004a:11023**
Yuan, Pingzhi On algebraic approximations of certain algebraic numbers. (English summary) **2004f:11068**
Zannier, Umberto M. *see* **Bugeaud, Yann et al., 2004a:11064**

11D79 Congruences in many variables

Baulina, Yu. N. On the number of solutions of the equation $(x_1 + \cdots + x_n)^2 = ax_1 \cdots x_n$ in the finite field $\mathbb{F}_q$ for $\gcd(n-2, q-1) = 7$ and for $\gcd(n-2, q-1) = 14$. (Russian) **2004j:11034**
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Wooley, Trevor D. The difficulty of the local solubility problem for additive equations. **2004a:11026**

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11D85 Representation problems [see also 11P55]

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Brüdern, J. (*with* Wooley, Trevor D.) The paucity problem for certain pairs of diagonal equations. **2004b:11038**
Budarina, N. V. On the number of solutions of nonhomogeneous equations. (Russian) **2004m:11050**
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Elia, Michele Observations on some algebraic equations associated with Ramanujan's work. (English summary) **2004d:11018**
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Heath-Brown, D. R. (*with* Tolev, D. I.) Lagrange's four squares theorem with one prime and three almost-prime variables. **2004c:11180**
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Liss, Gëza On the extremal Frobenius problem in a new aspect. **2004e:11025**
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11D99 None of the above, but in this section

Dufour, Barbara (*with* Kihel, Omar) The Brocard-Ramanujan Diophantine equation. (English summary) **2004k:11042**
Kihel, Omar *see* **Dufour, Barbara, 2004k:11042**
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Bugeaud, Yann (*with* Dujella, Andrej) On a problem of Diophantus for higher powers. (English summary) **2004b:11035**
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11Exx Forms and linear algebraic groups {For quadratic forms in linear algebra, see 15A63.}

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(Baeza, Ricardo) *see* **Algebraic and arithmetic theory of quadratic forms, 2004k:11002**
(Hsia, John S.) *see* **Algebraic and arithmetic theory of quadratic forms, 2004k:11002**
(Jacob, William B.) *see* **Algebraic and arithmetic theory of quadratic forms, 2004k:11002**
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11E04 Quadratic forms over general fields

Becher, Karim Johannes Supreme Pfister forms. (English summary) **2004k:11043**
Hoshi, Akinari Multiplicative quadratic forms on algebraic varieties. (English summary) **2004b:11042**
Kahn, Bruno (*with* Laghribi, Ahmed) A second descent problem for quadratic forms. (English summary) **2004m:11052**
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— *see also* **Kahn, Bruno, 2004m:11052**
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Aravire, R. (*with* Baeza, Ricardo) Linkage of fields in characteristic 2. (English summary) **2004c:11047**
Aslam, Muhammad[1] Intransitive action of $\langle y, t : y^4 = t^4 = 1 \rangle$ on $\mathbf{Q}(\sqrt{n})$.
Baeza, Ricardo *see* **Aravire, R., 2004c:11047**
Berhuy, Grégory Autour des formes trace des algèbres cycliques. [On the trace forms of cyclic algebras] **2004k:11051**
Brosnan, Patrick A short proof of Rost nilpotence via refined correspondences. (English summary) **2004j:14010**
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11E08 Quadratic forms over local rings and fields

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Suresh, V. On the u-invariant of function fields of p-adic curves. (English summary) **2004f:11031**

11E10 Forms over real fields

Items with secondary classifications in 11E10

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Chen, Bao Xing Some notes on the positive definite problem of a binary quartic form. (English summary) **2004f:11035**
Chiera, Francesco L. Trace operators and theta series for $\Gamma_{0,n}[q]$ and $\Gamma_n[q]$. (English summary) **2004k:11049**
Dickmann, M. A. (*with* Miraglia, F.) Lam's conjecture. (English summary) **2004e:11037**
Koprowski, Przemysław Witt equivalence of algebraic function fields over real closed fields. (English summary) **2004c:11048**
Miraglia, F. *see* **Dickmann, M. A., 2004e:11037**
Tekcan, Ahmet (*with* Bizim, Osman) The connection between quadratic forms and the extended modular group. (English summary) **2004j:11037**

11E12 Quadratic forms over global rings and fields

Budarina, N. V. Deformations of Diophantine systems for quadratric forms of cubic lattices. (Russian. Russian summary) **2004e:11032**
Chan, Wai Kiu (*with* Xu, Fei[1]) On representations of spinor genera. (English summary) **2004j:11035**
Czogała, Alfred (*with* Sładek, Andrzej) Witt rings of global fields. (English summary) **2004d:11023**
Gerstein, Larry J. Definite quadratic forms over $\mathbb{F}_q[x]$. (English summary) **2004f:11032**
Leibak, Alar Some results on reduction of unary positive quadratic forms over totally real cyclic number fields. (English summary) **2004a:11027**

Matveev, G. V. (*with* Shiryaev, V. M.) Estimates for the number of inequalities. (Russian. English and Russian summaries) **2004g:11026**
Oh, Byeong-Kweon The representation of quadratic forms by almost universal forms of higher rank. (English summary) **2004m:11053**
Ryshkov, Sergei Sergeevich On the theory of the cone of positivity and the theory of the perfect polyhedra $\Pi(n)$ and $\mu_n(m)$. (Russian. Russian summary) **2004m:11054**
Shiryaev, V. M. *see* **Matveev, G. V., 2004g:11026**
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Xu, Fei[1] *see* **Chan, Wai Kiu, 2004j:11035**
Zel'dich, M. V. On the local boundedness of exact weakly positive integral forms. (Russian. English summary) **2004h:11029**
Zhuravlev, V. G. Deformations of quadratic Diophantine systems. (Russian. Russian summary) **2004a:11028**

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Nakagawa, Jin Class numbers of pairs of symmetric matrices. **2004b:11044**
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11E16 General binary quadratic forms

Arnol'd, V. I. Arithmetics of binary quadratic forms, symmetry of their continued fractions and geometry of their de Sitter world. (English summary) **2004h:11030**
Bizim, Osman *see* **Tekcan, Ahmet, 2004j:11037**
Gica, Alexandru An application of a theorem of Siegel. (English summary) **2004j:11036**
Halter-Koch, Franz Representation of prime powers in arithmetical progressions by binary quadratic forms. (English and French summaries) **2004k:11044**
Jagy, William C. (*with* Kaplansky, Irving) Indefinite binary quadratic forms with Markov ratio exceeding 9. **2004i:11031**
Kaplansky, Irving *see* **Jagy, William C., 2004i:11031**
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Tekcan, Ahmet (*with* Bizim, Osman) The connection between quadratic forms and the extended modular group. (English summary) **2004j:11037**
Troessaert, Gérald (*with* Valette, Alain) On values at integer points of some irrational, binary quadratic forms. (English summary) **2004e:11033**
Valette, Alain *see* **Troessaert, Gérald, 2004e:11033**

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Chapman, Robin (*with* van der Poorten, Alfred J.) Binary quadratic forms and the eta function. **2004b:11045**
Crespo, Teresa $2S_4 * Q_s$-extensions. (English summary) **2004m:12006**
Kumagai, Hiroshi On unified Kronecker limit formulae. **2004d:11087**
van der Poorten, Alfred J. A note on NUCOMP. (English summary) **2004b:11173**
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11E20 General ternary and quaternary quadratic forms; forms of more than two variables

Chan, Wai Kiu (*with* Oh, Byeong-Kweon) Finiteness theorems for positive definite n-regular quadratic forms. (English summary) **2004i:11032**
He, Yu[1] Nondecomposable forms on quaternionic Hurwitz ring. (Chinese. English and Chinese summaries) **2004b:11043**
Oh, Byeong-Kweon *see* **Chan, Wai Kiu, 2004i:11032**

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Aqzzouz, Belmesnaoui (*with* El Kadiri, Mohamed) Quelques remarques sur les formes biquadratiques semi-définies positives. (English and French summaries) [Some remarks on positive semidefinite biquadratic forms] **2004h:11034**
Budarina, N. V. Deformations of Diophantine systems for quadratric forms of cubic lattices. (Russian. Russian summary) **2004e:11032**
El Kadiri, Mohamed *see* **Aqzzouz, Belmesnaoui, 2004h:11034**
Gerstein, Larry J. Definite quadratic forms over $\mathbb{F}_q[x]$. (English summary) **2004f:11032**
Oh, Byeong-Kweon The representation of quadratic forms by almost universal forms of higher rank. (English summary) **2004m:11053**
Wang, Xue Li[1] The minimal positive integer represented by a positive definite quadratic form. (English summary) **2004c:11062**

11E25 Sums of squares and representations by other particular quadratic forms

(Andrews, George E.) *see* **Milne, Stephen C.**
Beintema, Mark B. (*with* Khosravani, Azar N.) Universal forms: the four-square theorem and its generalizations. **2004f:11033**
Bizim, Osman *see* **Tekcan, Ahmet, 2004m:11055**
Chan, Heng Huat (*with* Chua, Kok Seng) Representations of integers as sums of 32 squares. (English summary) **2004k:11045**
Chua, Kok Seng *see* **Chan, Heng Huat, 2004k:11045**
Cooper, Shaun (*with* Lam, Heung Yeung) Sums of two, four, six and eight squares and triangular numbers: an elementary approach. (English summary) **2004c:11044**
— On the number of representations of certain integers as sums of 11 or 13 squares. (English summary) **2004k:11046**
— (*with* Hirschhorn, Michael D.) Results of Hurwitz type for three squares. (English summary) **2004i:11033**
Ewell, John A. On two arithmetical functions. (English summary) **2004k:11047**
— On sums of two squares and sums of two triangular numbers. (English summary) **2004k:11048**
Hirschhorn, Michael D. *see* **Cooper, Shaun, 2004i:11033**
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Lam, Heung Yeung *see* **Cooper, Shaun, 2004c:11044**
Lin, Jia Fu The number of representations of an integer as a sum of eight squares. (English summary) **2004e:11034**
Milne, Stephen C. ★ Infinite families of exact sums of squares formulas, Jacobi elliptic functions, continued fractions, and Schur functions. (English summary)
Tekcan, Ahmet (*with* Bizim, Osman) On the number of representations of positive integers by quadratic forms as the basis of the space $S_4(\Gamma_0(47), 1)$. (English summary) **2004m:11055**
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Bernstein, Daniel J. *see* **Atkin, A. O. L., 2004i:11147**
Budarina, N. V. Deformations of Diophantine systems for quadratric forms of cubic lattices. (Russian. Russian summary) **2004e:11032**
Chan, Wai Kiu (*with* Xu, Fei[1]) On representations of spinor genera. (English summary) **2004j:11035**
Davidoff, Giuliana (*with* Sarnak, Peter; Valette, Alain) ★ Elementary number theory, group theory, and Ramanujan graphs. **2004f:11001**
Fernando, José F. Analytic surface germs with minimal Pythagoras number. (English summary) **2004e:32006**
Halter-Koch, Franz Representation of prime powers in arithmetical progressions by binary quadratic forms. (English and French summaries) **2004k:11044**
Hoshi, Akinari Multiplicative quadratic forms on algebraic varieties. (English summary) **2004b:11042**
Ji, Chun-Gang Sums of three integral squares in cyclotomic fields. (English summary) **2004d:11106**
Raghavan, Srinivasacharya The Siegel formula and beyond. **2004d:11024**
Rajwade, A. R. Hilbert's seventeenth problem and Pfister's work on quadratic forms. **2004b:12002**
Sarnak, Peter *see* **Davidoff, Giuliana et al., 2004f:11001**
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Zhuravlev, V. G. Deformations of quadratic Diophantine systems. (Russian. Russian summary) **2004a:11028**

11E39 Bilinear and Hermitian forms

Đoković, Dragomir Ž. (*with* Szechtman, Fernando; Zhao, Kai Ming) An algorithm that carries a square matrix into its transpose by an involutory congruence transformation. (English summary) **2004i:11035**
Lewis, David W. (*with* Unger, Thomas P.) A local-global principle for algebras with involution and Hermitian forms. (English summary) **2004g:11028**
Szechtman, Fernando *see* **Đoković, Dragomir Ž. et al., 2004i:11035**
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Zhao, Kai Ming *see* **Đoković, Dragomir Ž. et al., 2004i:11035**

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Chen, Dezhong *see* **Ma, Li[2], 2004k:15053**
Kearton, C. (*with* Wilson, S. M. J.) Sharp bounds on some classical knot invariants. (English summary) **2004j:57017**
Lewis, David W. Involutions and anti-automorphisms of central simple algebras. (English summary) **2004k:16045**
Ma, Li[2] (*with* Chen, Dezhong) Systems of Hermitian quadratic forms. (English summary) **2004k:15053**
Muro, Masakazu Singular invariant hyperfunctions on the square matrix space and the alternating matrix space. (English summary) **2004c:22015**
Parimala, Raman *see* **Bayer-Fluckiger, Eva et al., 2004j:16037**
Quéguiner-Mathieu, Anne *see* **Bayer-Fluckiger, Eva et al., 2004j:16037**
Wilson, S. M. J. *see* **Kearton, C., 2004j:57017**

11E41 Class numbers of quadratic and Hermitian forms

Nakagawa, Jin Class numbers of pairs of symmetric matrices. **2004b:11044**

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Gica, Alexandru An application of a theorem of Siegel. (English summary) **2004j:11036**
Luca, Florian A note on the divisibility of class numbers of real quadratic fields. (French summary) **2004g:11099**

11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)

Chapman, Robin (*with* van der Poorten, Alfred J.) Binary quadratic forms and the eta function. **2004b:11045**
Chiera, Francesco L. Trace operators and theta series for $\Gamma_{0,n}[q]$ and $\Gamma_n[q]$. (English summary) **2004k:11049**
van der Poorten, Alfred J. *see* **Chapman, Robin, 2004b:11045**
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Items with secondary classifications in 11E45

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Kondo, Satoshi Kronecker limit formula for Drinfeld modules. (English summary) **2004k:11093**
Kumagai, Hiroshi On unified Kronecker limit formulae. **2004d:11087**
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Peter, Manfred Dirichlet series and automorphic functions associated to a quadratic form. (English summary) **2004h:11041**
Tekcan, Ahmet (*with* Bizim, Osman) On the number of representations of positive integers by quadratic forms as the basis of the space $S_4(\Gamma_0(47), 1)$. (English summary) **2004m:11055**
Wang, Xue Li[1] The minimal positive integer represented by a positive definite quadratic form. (English summary) **2004c:11062**

11E57 Classical groups [see also 14Lxx, 20Gxx]

Brusamarello, Rosali (*with* Chuard-Koulmann, Pascale; Morales, Jorge F.) Orthogonal groups containing a given maximal torus. (English summary) **2004k:11050**
Chuard-Koulmann, Pascale *see* **Brusamarello, Rosali et al.**, **2004k:11050**
Margulis, Grigorii A. Diophantine approximation, lattices and flows on homogeneous spaces. **2004h:11031**
Morales, Jorge F. *see* **Brusamarello, Rosali et al.**, **2004k:11050**

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Mason, A. W. (*with* Schweizer, Andreas) The minimum index of a non-congruence subgroup of SL_2 over an arithmetic domain. (English summary) **2004c:20085**
Schweizer, Andreas *see* **Mason, A. W.**, **2004c:20085**
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11E70 K-theory of quadratic and Hermitian forms

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Tang, Guo Ping Unitary K_1-groups under Λ-stable range condition. (Chinese. English and Chinese summaries)

11E72 Galois cohomology of linear algebraic groups [see also 20G10]

Berhuy, Grégory (*with* Favi, Giordano) Essential dimension: a functorial point of view (after A. Merkurjev). (English summary) **2004m:11056**
Favi, Giordano *see* **Berhuy, Grégory**, **2004m:11056**
Garibaldi, Ryan Skip (*with* Merkur'ev, A. S.; Serre, Jean-Pierre) ★ Cohomological invariants in Galois cohomology. **2004f:11034**
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Han, Ilseop Hasse principles for the Brauer groups of algebraic function fields of genus zero over global fields. (English summary) **2004e:11035**
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Nguyễn Quôc Thắng On corestriction principle in non abelian Galois cohomology over local and global fields. (English summary) **2004a:11030**
— Weak approximation, Brauer and R-equivalence in algebraic groups over arithmetical fields. II. (English summary) **2004b:11046**
— Weak corestriction principle for non-abelian Galois cohomology. (English summary) **2004h:11032**
Ould Beddi, Mohamed Abdallahi Principe de Hasse et groupe de Brauer. (English and French summaries) [Hasse principle and Brauer group] **2004i:11036**
Parimala, Raman (*with* Preeti, R.) Hasse principle for classical groups over function fields of curves over number fields. (English summary) **2004c:11046**
— *see also* **Merkur'ev, A. S. et al.**, **2004c:11045**
Preeti, R. *see* **Parimala, Raman**, **2004c:11046**
Quéguiner-Mathieu, Anne Invariants cohomologiques: des formes quadratiques aux algèbres à involution. (French summary) [Cohomological invariants: from quadratic forms to involution algebras] **2004h:11033**
Serre, Jean-Pierre Cohomological invariants, Witt invariants, and trace forms. (*see* **2004f:11034**)
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Chernousov, V. The kernel of the Rost invariant, Serre's conjecture II and the Hasse principle for quasi-split groups ${}^{3,6}D_4$, E_6, E_7. (English summary) **2004e:20079**
Monsurrò, Marina *see* **Berhuy, Grégory et al.**, **2004c:16027**
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11E76 Forms of degree higher than two

Aqzzouz, Belmesnaoui (*with* El Kadiri, Mohamed) Quelques remarques sur les formes biquadratiques semi-définies positives. (English and French summaries) [Some remarks on positive semidefinite biquadratic forms] **2004h:11034**
Chen, Bao Xing Some notes on the positive definite problem of a binary quartic form. (English summary) **2004f:11035**
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O'Ryan, Manuel (*with* Shapiro, Daniel B.) Centers of higher degree forms. (English summary) **2004g:11029**
Reznick, Bruce Patterns of dependence among powers of polynomials. (English summary) **2004e:11036**
Shapiro, Daniel B. *see* **O'Ryan, Manuel**, **2004g:11029**
Summerer, Leonhard Forms represented by linear forms. (English summary) **2004h:11035**

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Dietmann, Rainer (*with* Wooley, Trevor D.) Pairs of cubic forms in many variables. **2004h:11027**
— Cubic forms modulo one. (English summary) **2004k:11040**
Kable, Anthony C. (*with* Yukie, Akihiko) On the space of quadruples of quinary alternating forms. (English summary) **2004i:11139**
Kim, Ki Hang (*with* Roush, F. W.) Results on undecidability of isomorphism of forms over polynomial rings. (English summary) **2004m:03157**
Madore, David A. *see* **Colliot-Thélène, Jean-Louis**, **2004k:14031**
Nakagawa, Jin Class numbers of pairs of symmetric matrices. **2004b:11044**
Roush, F. W. *see* **Kim, Ki Hang**, **2004m:03157**
Wooley, Trevor D. *see* **Dietmann, Rainer**, **2004h:11027**
Yukie, Akihiko *see* **Kable, Anthony C.**, **2004i:11139**

11E81 Algebraic theory of quadratic forms; Witt groups and rings [see also 19G12, 19G24]

Aravire, R. (*with* Baeza, Ricardo) Linkage of fields in characteristic 2. (English summary) **2004c:11047**
Astier, Vincent Pfister's subform theorem for reduced special groups. (English summary) **2004j:11038**
Baeza, Ricardo *see* **Aravire, R.**, **2004c:11047**
Becher, Karim Johannes Le radical de Kaplansky. [The Kaplansky radical] **2004g:11030**
Berhuy, Grégory Autour des formes trace des algèbres cycliques. [On the trace forms of cyclic algebras] **2004k:11051**
Chabloz, Philippe Anneau de Witt des G-formes et produit des G-formes traces par des formes quadratiques. [Witt ring of G-forms and product of trace G-forms by quadratic forms] **2004g:11031**
Craven, Thomas C. (*with* Smith, Tara L.) Semiorderings and Witt rings. (English summary) **2004b:11047**
Dickmann, M. A. (*with* Miraglia, F.) Lam's conjecture. (English summary) **2004e:11037**
— (*with* Miraglia, F.) Bounds for the representation of quadratic forms. (English summary) **2004k:11052**
Gille, Stefan A transfer morphism for Witt groups. (English summary) **2004j:11039**
Koprowski, Przemyslaw Witt equivalence of algebraic function fields over real closed fields. (English summary) **2004c:11048**
de la Maza, Ana Cecilia Generalization of the second trace form of central simple algebras in characteristic two. (English summary) **2004f:11036**
Miraglia, F. *see* **Dickmann, M. A.**, **2004e:11037** *and* **2004k:11052**
Pfister, Albrecht Eine Bemerkung zum Normenresthomomorphismus $h\colon K_*F/2 \to H^*(F, \mathbb{Z}/2)$. (English summary) [A remark on the norm residue homomorphism $h\colon K_*F/2 \to H^*(F, \mathbb{Z}/2)$] **2004k:11053**
dos Santos, Clotilzio Moreira On Witt rings of quaternion algebras over 1-Hilbert fields. **2004b:11048**
Smith, Tara L. *see* **Craven, Thomas C.**, **2004b:11047**

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Balmer, Paul Vanishing and nilpotence of locally trivial symmetric spaces over regular schemes. (English summary) **2004b:19007**
Becher, Karim Johannes Supreme Pfister forms. (English summary) **2004k:11043**
Bleher, Frauke M. (*with* Chinburg, Ted) Deformations with respect to an algebraic group. (English summary) **2004j:20023**
Cabral, M. de J. *see* **Bailly, Catherine**, **2004m:11126**
Chinburg, Ted *see* **Bleher, Frauke M.**, **2004j:20023**
Czogała, Alfred (*with* Sładek, Andrzej) Witt rings of global fields. (English summary) **2004d:11023**
(Gahide, G.) *see* **Bailly, Catherine**, **2004m:11126**
Gille, Stefan (*with* Nenashev, A. Yu.) Pairings in triangular Witt theory. (English summary) **2004b:19008**
Hahn, Alexander The Clifford algebra in the theory of algebras, quadratic forms, and classical groups. (English summary) **2004m:11057**
Kahn, Bruno (*with* Laghribi, Ahmed) A second descent problem for quadratic forms. (English summary) **2004m:11052**
Karpenko, Nikita A. On the first Witt index of quadratic forms. (English summary) **2004f:11030**

Laghribi, Ahmed (*with* Mammone, Pasquale) Isotropie d'une forme quadratique sur le corps des fonctions d'une quadrique en caractéristique 2. (English and French summaries) [Isotropy of a quadratic form over the function field of functions in characteristic 2] **2004h:11028**
— *see also* **Kahn, Bruno**, **2004m:11052**
Lorenz, Martin (*with* Reichstein, Zinovy; Rowen, Louis H.; Saltman, D. J.) Fields of definition for division algebras. (English summary) **2004j:16022**
Mammone, Pasquale *see* **Laghribi, Ahmed**, **2004h:11028**
Nenashev, A. Yu. *see* **Gille, Stefan**, **2004b:19008**
Reichstein, Zinovy *see* **Lorenz, Martin et al.**, **2004j:16022**
Rowen, Louis H. *see* **Lorenz, Martin et al.**, **2004j:16022**
Saltman, D. J. *see* **Lorenz, Martin et al.**, **2004j:16022**
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Suresh, V. On the u-invariant of function fields of p-adic curves. (English summary) **2004f:11031**
Zel'dich, M. V. On the local boundedness of exact weakly positive integral forms. (Russian. English summary) **2004h:11029**

11E88 Quadratic spaces; Clifford algebras [see also 15A63, 15A66]

Hahn, Alexander The Clifford algebra in the theory of algebras, quadratic forms, and classical groups. (English summary) **2004m:11057**

Items with secondary classifications in 11E88

Bleher, Frauke M. (*with* Chinburg, Ted) Deformations with respect to an algebraic group. (English summary) **2004j:20023**
Brusamarello, Rosali (*with* Chuard-Koulmann, Pascale; Morales, Jorge F.) Orthogonal groups containing a given maximal torus. (English summary) **2004k:11050**
Chinburg, Ted *see* **Bleher, Frauke M.**, **2004j:20023**
Chuard-Koulmann, Pascale *see* **Brusamarello, Rosali et al.**, **2004k:11050**
Morales, Jorge F. *see* **Brusamarello, Rosali et al.**, **2004k:11050**

11E99 None of the above, but in this section

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Ojanguren, Manuel *see* **Colliot-Thélène, Jean-Louis et al.**, **2004c:14031**
Parimala, Raman *see* **Colliot-Thélène, Jean-Louis et al.**, **2004c:14031**

11Fxx Discontinuous groups and automorphic forms {For relations with quadratic forms, see 11E45.}

11F03 Modular and automorphic functions

Adiga, Chandrashekar (*with* Kim, Taekyun; Mahadeva Naika, M. S.) Modular equations in the theory of signature 3 and P-Q identities. (English summary) **2004c:11049**
Basha, Stephanie (*with* Getz, Jayce; Nover, Harris; Smith, Emma) Systems of orthogonal polynomials arising from the modular j-function. (English summary) **2004k:11054**
Getz, Jayce *see* **Basha, Stephanie et al.**, **2004k:11054**
Kim, Taekyun *see* **Adiga, Chandrashekar et al.**, **2004c:11049**
Mahadeva Naika, M. S. *see* **Adiga, Chandrashekar et al.**, **2004c:11049**
Nover, Harris *see* **Basha, Stephanie et al.**, **2004k:11054**
Shastri, Parvati Elliptic functions. (English summary) (*see* **2004m:11085**)
Smith, Emma *see* **Basha, Stephanie et al.**, **2004k:11054**

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Borisov, Lev A. (*with* Gunnells, Paul E.) Toric modular forms of higher weight. (English summary) **2004f:11037**
Choie, YoungJu (*with* Kohnen, Winfried) Special values of elliptic functions at points of the divisors of Jacobi forms. (English summary) **2004e:11042**
Gunnells, Paul E. *see* **Borisov, Lev A.**, **2004f:11037**
Kırmacı, Uğur S. On the modular functions arising from the theta constants. (English summary) **2004b:11053**
Köhler, Günter[1] *see* **Baier, Harald**, **2004h:11039**
Kohnen, Winfried *see* **Choie, YoungJu**, **2004e:11042**
Kraußhar, Rolf Sören Eisenstein series in complexified Clifford analysis. (English summary) **2004k:30122**
Lachaud, Gilles Spectral analysis and the Riemann hypothesis. (English summary) **2004j:11099**
Marklof, Jens Almost modular functions and the distribution of n^2x modulo one. **2004g:11060**
Quebbemann, H.-G. (*with* Rains, Eric M.) On the involutions fixing the class of a lattice. (English summary) **2004c:11118**
Rains, Eric M. *see* **Quebbemann, H.-G.**, **2004c:11118**
Sarnak, Peter Spectra of hyperbolic surfaces. (English summary) **2004f:11107**
Zagier, Don Traces of singular moduli. **2004h:11037**

11F06 Structure of modular groups and generalizations; arithmetic groups [see also 20H05, 20H10, 22E40]

Bizim, Osman *see* **Şahin, Recep et al.**, **2004m:11058**
Cangül, İsmail Naci *see* **Şahin, Recep et al.**, **2004m:11058**
Cummins, C. J. (*with* Pauli, Sebastian) Congruence subgroups of $\mathrm{PSL}(2,\mathbb{Z})$ of genus less than or equal to 24. (English summary) **2004i:11037**
Katok, Svetlana Continued fractions, hyperbolic geometry and quadratic forms. **2004j:11040**
Lascurain Orive, Antonio Some presentations for $\overline{\Gamma}_0(N)$. (English summary) **2004a:11031**
Özgür, Nihal Yılmaz Generalizations of Fibonacci and Lucas sequences. (English summary) **2004c:11050**
Pauli, Sebastian *see* **Cummins, C. J.**, **2004i:11037**
Şahin, Recep (*with* Bizim, Osman; Cangül, İsmail Naci) Commutator subgroups of the extended Hecke groups $\overline{H}(\lambda_q)$. (English summary) **2004m:11058**
Tagami, Makoto Nonexistence of modular fusion algebras whose kernels are certain noncongruence subgroups. (English summary) **2004h:11036**

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Bullett, Shaun (*with* Freiberger, Marianne) Hecke groups, polynomial maps and matings. (English summary) **2004k:37087**
Cangül, İsmail Naci *see* **Ulutaş, Yücel Türker**, **2004d:20058**
Freiberger, Marianne *see* **Bullett, Shaun**, **2004k:37087**
Keskin, Refik Some subgroups of the normalizer of $\Gamma_0(\mu)$ in $\mathbf{PSL}(2,\mathbb{C})$. (English summary) **2004i:20093**
Kühnlein, Stefan Cohomology sets inside arithmetic groups. **2004b:11068**
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Lang, Mong Lung (*with* Tan, Candy) Normalisers of groups commensurable with $\mathrm{PSL}_2(\mathbb{Z})$. (English summary) **2004k:20101**
Mason, A. W. On non-congruence subgroups of the analogue of the modular group in characteristic p. (English summary) **2004m:20097**
Özgür, Nihal Yılmaz On the subgroups of the Picard group. (English summary)
— (*with* Şahin, Recep) On the extended Hecke groups $\overline{H}(\lambda_q)$. (English summary) **2004j:20099**
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— *see also* **Özgür, Nihal Yılmaz**, **2004j:20099**
Tan, Candy *see* **Lang, Mong Lung**, **2004k:20101**
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11F11 Modular forms, one variable

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Barcau, Mugurel A. Isogeny covariant differential modular forms and the space of elliptic curves up to isogeny. (English summary) **2004m:11060**
Berndt, Bruce C. (*with* Yee, Ae Ja) A page on Eisenstein series in Ramanujan's Lost Notebook. (English summary) **2004a:11032**
Brumley, Farrell Maass cusp forms with quadratic integer coefficients. **2004d:11025**
Kohnen, Winfried Transcendence of zeros of Eisenstein series and other modular functions. **2004c:11051**
Liu, Zhi-Guo Some Eisenstein series identities related to modular equations of the seventh order. (English summary) **2004c:11052**
Luo, Wenzhi (*with* Sarnak, Peter) Mass equidistribution for Hecke eigenforms. (English summary) **2004e:11038**
Manickam, M. (*with* Ramakrishnan, B.) An introduction to modular forms and Hecke operators. (English summary) (*see* **2004m:11085**)
Pasles, Paul C. Multiplier systems. **2004b:11049**
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Sarnak, Peter Maass cusp forms with integer coefficients. **2004c:11053**
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Yee, Ae Ja *see* **Berndt, Bruce C.**, **2004a:11032**
Zagier, Don Traces of singular moduli. **2004h:11037**

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(Agashe, Amod) *see* **Lario, Joan-Carles**, **2004b:11072**
Ahlgren, Scott (*with* Boylan, Matthew) Arithmetic properties of the partition function. **2004e:11115**
— (*with* Ono, Ken) Weierstrass points on $X_0(p)$ and supersingular j-invariants. **2004b:11086**
Arakawa, Tsuneo (*with* Böcherer, Siegfried) Vanishing of certain spaces of elliptic modular forms and some applications. **2004m:11069**
Arenas, Angela On the traces of Hecke operators. (English summary) **2004c:11058**
Baier, Harald (*with* Köhler, Günter[1]) How to compute the coefficients of the elliptic modular function $j(z)$. (English summary) **2004h:11039**
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Böcherer, Siegfried *see* **Arakawa, Tsuneo**, **2004m:11069**
Boylan, Matthew *see* **Ahlgren, Scott**, **2004e:11115**
Brown, Alexander F. (*with* Ghate, Eknath) Endomorphism algebras of motives attached to elliptic modular forms. (English and French summaries) **2004m:11089**
Buzzard, Kevin Analytic continuation of overconvergent eigenforms. **2004c:11063**
Chan, Heng Huat (*with* Chua, Kok Seng) Representations of integers as sums of 32 squares. (English summary) **2004k:11045**
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Chua, Kok Seng Explicit congruences for the partition function modulo every prime. (English summary) **2004h:11081**
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Conrad, Brian (*with* Edixhoven, Bas; Stein, William A.) $J_1(p)$ has connected fibers. (English summary) **2004k:11094**
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Ellenberg, Jordan S. On the average number of octahedral modular forms. **2004b:11070**
Frechette, Sharon M. A classical characterization of newforms with equivalent eigenforms in $S_{k+1/2}(4N, \chi)$. (English summary) **2004h:11040**
Fukaya, Takako The theory of Coleman power series for K_2. (English summary) **2004c:11116**
Ghate, Eknath *see* **Brown, Alexander F., 2004m:11089**
Gustavsson, Andreas On the holomorphically factorized partition function for abelian gauge theory in six dimensions. (English summary) **2004f:81149**
Herremans, Adriaan A combinatorial interpretation of Serre's conjecture on modular Galois representations. (English and French summaries) **2004i:11053**
Ichihara, Yumiko The evaluation of the sum over arithmetic progressions for the coefficients of the Rankin-Selberg series. **2004m:11074**
Iovita, Adrian (*with* Spieß, Michael) Derivatives of p-adic L-functions, Heegner cycles and monodromy modules attached to modular forms. (English summary) **2004i:11063**
Ishikawa, Tsuneo On certain congruences for Fourier coefficients of classical cusp forms. **2004c:11060**
Kim, Daeyeoul (*with* Koo, Ja Kyung) Algebraic numbers, transcendental numbers and elliptic curves derived from infinite products. (English summary) **2004i:11083**
Kleban, Peter (*with* Zagier, Don) Crossing probabilities and modular forms. (English summary) **2004j:82018**
Knopp, Marvin (*with* Mason, Geoffrey) On vector-valued modular forms and their Fourier coefficients. **2004j:11043**
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Koo, Ja Kyung *see* **Kim, Daeyeoul, 2004i:11083**
Kowalski, Emmanuel Classical automorphic forms. (*see* **2004g:11037**)
Lario, Joan-Carles (*with* Schoof, René) Some computations with Hecke rings and deformation rings. (English summary) **2004b:11072**
Lau, Yuk-Kam An estimate for symmetric square L-functions on weight aspect. (English summary) **2004i:11046**
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Mizumoto, Shin-ichiro Certain series attached to an even number of elliptic modular forms. (English summary) **2004k:11075**
Mohaupt, Thomas *see* **Louis, Jan et al., 2004d:81099**
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Nesterenko, Yu. V. On the algebraic independence of numbers. (English summary) **2004d:11063**
(Ng, Nathan) *see* **Murty, Maruti Ram, 2004c:11160**
Ono, Ken *see* **Ahlgren, Scott, 2004b:11086**
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Skinner, Christopher M. (*with* Wiles, Andrew J.) Nearly ordinary deformations of irreducible residual representations. (English and French summaries) **2004b:11073**
Spieß, Michael *see* **Iovita, Adrian, 2004i:11063**
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Takayanagi, Tadashi Modular invariance of strings on PP-waves with RR-flux. (English summary) **2004d:81108**
(Venkataramana, T. N.) *see* **Elliptic curves, modular forms and cryptography, 2004m:11085**
Voskresenskaya, G. V. Multiplicative products of Dedekind eta-functions and representations of groups. (Russian. Russian summary) **2004i:11039**
Wang, Xian Tao (*with* Pei, Dingyi) A generalization of Cohen-Eisenstein series and Shimura liftings and some congruences between cusp forms and Eisenstein series. (English summary) **2004m:11067**
Wiles, Andrew J. *see* **Skinner, Christopher M., 2004b:11073**
Yee, Ae Ja *see* **Berndt, Bruce C. et al., 2004j:11122**
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11F12 Automorphic forms, one variable

Chamizo, Fernando Automorphic forms and differentiability properties. (English summary) **2004k:11055**
Choie, YoungJu (*with* Kohnen, Winfried) Special values of modular functions on Hecke groups. **2004k:11056**
Kohnen, Winfried *see* **Choie, YoungJu, 2004k:11056**
Kowalski, Emmanuel Classical automorphic forms. (*see* **2004g:11037**)
Kraußhar, Rolf Sören Poincaré series in Clifford analysis. (English summary) **2004k:11057**
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Cummins, C. J. (*with* Pauli, Sebastian) Congruence subgroups of $\mathrm{PSL}(2, \mathbb{Z})$ of genus less than or equal to 24. (English summary) **2004i:11037**
Gaitsgory, Dennis *see* **Bump, Daniel et al., 2004g:11037**
(Gelbart, Stephen) *see* **Bump, Daniel et al., 2004g:11037**
Kowalski, Emmanuel *see* **Bump, Daniel et al., 2004g:11037**
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Lachaud, Gilles Spectral analysis and the Riemann hypothesis. (English summary) **2004j:11099**
Ono, Takashi A note on Poincaré sums for finite groups. (English summary) **2004c:11077**
Opolka, Hans Central pairs, Galois theory and automorphic forms. (English summary) **2004k:16046**
Pasles, Paul C. Multiplier systems. **2004b:11049**
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Shvartsman, O. V. On an example of D. Mumford and the factoriality of algebras of automorphic forms for plane groups of genus zero. (Russian) **2004c:14003**
Tejero Prieto, Carlos Spectral geometry of the Landau problem and automorphic forms. (English summary) **2004a:53113**
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11F20 Dedekind eta function, Dedekind sums

Chan, Heng Huat (*with* Gee, Alice; Tan, Victor) Cubic singular moduli, Ramanujan's class invariants λ_n and the explicit Shimura reciprocity law. (English summary) **2004h:11038**
Fukuhara, Shinji New trigonometric identities and generalized Dedekind sums. (English summary) **2004a:11033**
Gee, Alice *see* **Chan, Heng Huat et al., 2004h:11038**
Girstmair, Kurt Zones of large and small values for Dedekind sums. **2004c:11054**
Gunnells, Paul E. (*with* Sczech, Robert) Evaluation of Dedekind sums, Eisenstein cocycles, and special values of L-functions. (English summary) **2004c:11055**
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Ota, Kaori *see* **Nagasaka, Yumiko et al., 2004b:11050**
Ren, Gang Lian On the mean value of generalized Dedekind sums with the weight of Hurwitz zeta-functions. (Chinese. English and Chinese summaries) **2004c:11056**
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— *see also* Nagasaka, Yumiko et al., 2004b:11050
Simsek, Yilmaz Relations between theta-functions Hardy sums Eisenstein and Lambert series in the transformation formula of $\log \eta_{g,h}(z)$. (English summary) **2004b:11051**
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Yi, Jinhee Modular equations for the Rogers-Ramanujan continued fraction and the Dedekind eta-function. (English summary) **2004c:11057**
Zhang, Wen Peng A sum analogous to Dedekind sums and its hybrid mean value formula. **2004a:11034**
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Katsurada, Masanori Asymptotic expansions of certain q-series and a formula of Ramanujan for specific values of the Riemann zeta function. **2004f:11091**
Kim, Daeyeoul (*with* Koo, Ja Kyung) Algebraic numbers, transcendental numbers and elliptic curves derived from infinite products. (English summary) **2004i:11083**
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Meyer, Jeffrey L. Three-term relations for some analogues of the Dedekind sum. **2004b:11054**
Nechaev, Sergei (*with* Vasilyev, O. A.) On metric structure of ultrametric spaces. (English summary) **2004k:82111**
Ota, Kaori Dedekind sums with characters and class numbers of imaginary quadratic fields. **2004e:11126**
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Wang, Yang A quadratic mean value for a sum analogous to the generalized Dedekind sum $S_2(h,n,k)$. (Chinese. English and Chinese summaries)
Yi, Jinhee Theta-function identities and the explicit formulas for theta-function and their applications. (English summary) **2004m:11062**
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— On the difference between an integer and its inverse modulo n. II. (English summary) **2004a:11100**
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11F22 Relationship to Lie algebras and finite simple groups

Kazhdan, David A. (*with* Pioline, Boris; Waldron, Andrew) Minimal representations, spherical vectors and exceptional theta series. (English summary) **2004a:11035**
Kim, Chang Heon Borcherds products associated with certain Thompson series. (English summary) **2004k:11058**
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Cummins, C. J. (*with* Pauli, Sebastian) Congruence subgroups of $\mathrm{PSL}(2,\mathbb{Z})$ of genus less than or equal to 24. (English summary) **2004i:11037**
Hurley, Katherine L. Highest-weight vectors of the moonshine module with non-zero graded trace. (English summary) **2004c:17059**
Mason, Geoffrey (*with* Tuite, Michael P.) Torus chiral n-point functions for free boson and lattice vertex operator algebras. (English summary) **2004c:81110**
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11F23 Relations with algebraic geometry and topology

Borisov, Lev A. (*with* Libgober, Anatoly S.) Elliptic genera of singular varieties, orbifold elliptic genus and chiral de Rham complex. (English summary) **2004e:11039**
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Doran, Charles F. Algebro-geometric isomonodromic deformations linking Hauptmoduls: variation of the mirror map. (English summary) **2004d:11027**
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Li, Tian-Jun[1] (*with* Liu, Ai-Ko) Counting curves on elliptic ruled surface. **2004b:11052**
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Liu, Kefeng Mathematical results inspired by physics. (English summary) **2004d:11028**

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Deninger, Christopher A note on arithmetic topology and dynamical systems. (English summary) **2004c:14030**
D'Hoker, Eric (*with* Phong, D. H.) Two-loop superstrings. IV. The cosmological constant and modular forms. (English summary) **2004b:81156**
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Muñoz, Vicente Donaldson invariants of non-simple type 4-manifolds. (English summary) **2004a:57039**
Phong, D. H. *see* **D'Hoker, Eric, 2004b:81156**
Rognes, John Vidunderlige nye ringer. (Norwegian summary) [Brave new rings] **2004i:19001**
Sasaki, Toru[2] *see* **Jinzenji, Masao, 2004c:81272**
Soibelman, Yan Quantum tori, mirror symmetry and deformation theory. (English summary) **2004c:58019**
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11F27 Theta series; Weil representation

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11F33 Congruences for modular and p-adic modular forms [see also 14G20, 22E50]

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11F37 Forms of half-integer weight; nonholomorphic modular forms

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11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [see also 14J20]

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11F46 Siegel modular groups and their modular and automorphic forms

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11F75 Cohomology of arithmetic groups

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11F80 Galois representations

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11F85 p-adic theory, local fields [see also 14G20, 22E50]

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11Gxx Arithmetic algebraic geometry (Diophantine geometry) [see also 11Dxx, 14Gxx, 14Kxx]

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11G05 Elliptic curves over global fields [see also 14H52]

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11G16 Elliptic and modular units [see also 11R27]

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Oukhaba, Hassan Index formulas for ramified elliptic units. (English summary) **2004b:11085**

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Chen, Imin (*with* Cummins, C. J.) Elliptic curves with nonsplit mod 11 representations. (English summary) **2004m:11083**
Cummins, C. J. *see* **Chen, Imin, 2004m:11083**

11G18 Arithmetic aspects of modular and Shimura varieties [see also 14G35]

Ahlgren, Scott (*with* Ono, Ken) Weierstrass points on $X_0(p)$ and supersingular j-invariants. **2004b:11086**
Autissier, Pascal Hauteur des correspondances de Hecke. (English and French summaries) [The height of the Hecke correspondences] **2004i:11058**
Baker, Matthew H. (*with* Hasegawa, Yuji[1]) Automorphisms of $X_0^*(p)$. (English summary) **2004c:11100**
Bayer, Pilar Uniformization of certain Shimura curves. (English summary) **2004c:11101**
Bilu, Yuri F. Baker's method and modular curves. (English summary) **2004c:11102**
Breuer, Florian La conjecture d'André-Oort pour le produit de deux courbes modulaires de Drinfeld. (English and French summaries) [The André-Oort conjecture for the product of two Drinfel′d modular curves] **2004a:11050**
Brown, Alexander F. (*with* Ghate, Eknath) Endomorphism algebras of motives attached to elliptic modular forms. (English and French summaries) **2004m:11089**
Conrad, Brian (*with* Edixhoven, Bas; Stein, William A.) $J_1(p)$ has connected fibers. (English summary) **2004k:11094**
Edixhoven, Bas (*with* Yafaev, Andrei) Subvarieties of Shimura varieties. **2004c:11103**
— *see also* **Conrad, Brian et al., 2004k:11094**
Ghate, Eknath *see* **Brown, Alexander F., 2004m:11089**
Gonzàlez Rovira, Josep (*with* Rotger, Victor) Equations of Shimura curves of genus two. **2004k:11095**
Halberstadt, Emmanuel (*with* Kraus, Alain) Sur la courbe modulaire $X_E(7)$. (French summary) [On the modular curve $X_E(7)$] **2004m:11090**
Hasegawa, Yuji[1] *see* **Baker, Matthew H., 2004c:11100**
Kohel, David R. (*with* Verrill, Helena A.) Fundamental domains for Shimura curves. (English and French summaries) **2004k:11096**
Kraus, Alain *see* **Halberstadt, Emmanuel, 2004m:11090**
Nguyen Khac Viet Modular curves and some related issues. (English summary) **2004k:11097**
Ono, Ken *see* **Ahlgren, Scott, 2004b:11086**
Papikian, Mihran On the degree of modular parametrizations over function fields. (English summary) **2004c:11104**
Parent, Pierre Triviality of $X_{\mathrm{split}}(N)(\mathbb{Q})$ for certain congruence classes of N. (English and French summaries) **2004d:11047**
Rotger, Victor *see* **Gonzàlez Rovira, Josep, 2004k:11095**
Stein, William A. *see* **Conrad, Brian et al., 2004k:11094**
Tavernier, Cédric Construction of modular curves and computation of their cardinality over $\mathbb{F}_p$. (English summary) **2004e:11065**
Verrill, Helena A. *see* **Kohel, David R., 2004k:11096**
Yafaev, Andrei *see* **Edixhoven, Bas, 2004c:11103**

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André, Yves[1] ★ Period mappings and differential equations. From $\mathbb{C}$ to $\mathbb{C}_p$. **2004g:14014**
Baker, Matthew H. (*with* Ribet, Kenneth A.) Galois theory and torsion points on curves. (English and French summaries) **2004j:11058**
(Böckle, Gebhard) *see* **Khare, Chandrashekhar, 2004g:11043**
Bruinier, Jan Hendrik (*with* Kühn, Ulf) Integrals of automorphic Green's functions associated to Heegner divisors. **2004d:11037**
Burgos, José Ignacio (*with* Wildeshaus, Jörg) Modules de Hodge sur les variétés de Shimura, et leur dégénérescence dans la compactification de Baily-Borel. (English and French summaries) [Hodge modules on Shimura varieties, and their degeneration in the Baily-Borel compactification] **2004c:14013**
Buzzard, Kevin Analytic continuation of overconvergent eigenforms. **2004c:11063**
Chen, Imin (*with* Cummins, C. J.) Elliptic curves with nonsplit mod 11 representations. (English summary) **2004m:11083**

Cornut, Christophe Mazur's conjecture on higher Heegner points. (English summary) **2004e:11069a**
Couveignes, Jean-Marc Courbes elliptiques, courbes modulaires, correspondances, relèvements canoniques. [Elliptic curves, modular curves, correspondence, canonical lifts] (*see* **2004c:11004**)
Cummins, C. J. *see* **Chen, Imin**, **2004m:11083**
Darmon, Henri ★ Rational points on modular elliptic curves. **2004k:11103**
Edixhoven, Bas Rational elliptic curves are modular (after Breuil, Conrad, Diamond and Taylor). **2004b:11075**
Genestier, A. *see* **Ngô Bảo Châu**, **2004b:14036**
Görtz, Ulrich On the flatness of local models for the symplectic group. (English summary) **2004d:14023**
Iovita, Adrian (*with* Spieß, Michael) Derivatives of p-adic L-functions, Heegner cycles and monodromy modules attached to modular forms. (English summary) **2004i:11063**
Jarvis, Frazer Correspondences on Shimura curves and Mazur's principle at p. (English summary) **2004m:11066**
Jeon, Daeyeol (*with* Kim, Chang Heon) On the Drinfeld modular curves $X_1(n)$. (English summary) **2004f:11058**
Kassaei, Payman L. $\mathscr{P}$-adic modular forms over Shimura curves over totally real fields. (English summary) **2004m:11082**
(Kato, Fumiharu) *see* **André, Yves[1]**, **2004g:14014**
Khare, Chandrashekhar On isomorphisms between deformation rings and Hecke rings. **2004g:11043**
Kim, Chang Heon *see* **Jeon, Daeyeol**, **2004f:11058**
Krämer, Nicole Local models for ramified unitary groups. **2004k:14037**
Kühn, Ulf *see* **Bruinier, Jan Hendrik**, **2004d:11037**
Leprévost, Franck (*with* Pohst, Michael E.; Schöpp, Andreas) Familles de polynômes liées aux courbes modulaires $X_1(l)$ unicursales et points rationnels non-triviaux de courbes elliptiques quotient. [Families of polynomials associated with unicursal modular curves $X_1(l)$ and nontrivial rational points of quotient elliptic curves] **2004j:11053**
Manoharmayum, Jayanta A note on Serre's conjecture modulo 6. (English summary) **2004k:11064**
Mokrane, Abdellah (*with* Tilouine, Jacques) Cohomology of Siegel varieties with p-adic integral coefficients and applications. (English and French summaries) **2004c:11081**
Ngô Bảo Châu (*with* Genestier, A.) Alcôves et p-rang des variétés abéliennes. (English and French summaries) [Alcoves and p-rank of abelian varieties] **2004b:14036**
Pohst, Michael E. *see* **Leprévost, Franck et al.**, **2004j:11053**
Ribet, Kenneth A. *see* **Baker, Matthew H.**, **2004j:11058**
Saito, Takeshi[1] Galois representations in arithmetic geometry [translation of Sūgaku **51** (1999), no. 2, 161–174; MR 2001m:11089]. (*see* **2004a:00023**)
Schöpp, Andreas *see* **Leprévost, Franck et al.**, **2004j:11053**
Spieß, Michael *see* **Iovita, Adrian**, **2004i:11063**
Taylor, Richard L. On icosahedral Artin representations. II. (English summary) **2004e:11057**
Terracini, Lea A Taylor-Wiles system for quaternionic Hecke algebras. (English summary) **2004c:11083**
Tilouine, Jacques *see* **Mokrane, Abdellah**, **2004c:11081**
(Tsuzuki, Nobuo) *see* **André, Yves[1]**, **2004g:14014**
Vatsal, V. Special values of anticyclotomic L-functions. (English summary) **2004e:11069b**
Watkins, Mark J. Computing the modular degree of an elliptic curve. (English summary) **2004c:11091**
Wildeshaus, Jörg *see* **Burgos, José Ignacio**, **2004c:14013**
Zhang, Shou-Wu Elliptic curves, L-functions, and CM-points. **2004i:11064**

11G20 Curves over finite and local fields [see also 14H25]

Abdón, Miriam (*with* Garcia, Arnaldo) On a characterization of certain maximal curves. (English summary) **2004m:11091**
Aubry, Yves (*with* Perret, Marc) Divisibility of zeta functions of curves in a covering. (English summary) **2004m:11092**
Auer, Roland (*with* Top, Jaap) Some genus 3 curves with many points. (English summary) **2004m:11093**
Banks, William D. (*with* Shparlinski, Igor E.) Average normalisations of elliptic curves. (English summary) **2004c:11105**
Cardona, Gabriel On the number of curves of genus 2 over a finite field. (English summary) **2004e:11066**
Cossidente, Antonio (*with* Siciliano, Alessandro) Plane algebraic curves with Singer automorphisms. (English summary) **2004c:11106**
Feng, Deng Guo *see* **Hu, Lei et al.**
Garcia, Arnaldo *see* **Abdón, Miriam**, **2004m:11091**
Garefalakis, Theodoulos The generalized Weil pairing and the discrete logarithm problem on elliptic curves. (English summary) **2004a:11051**
Gekeler, Ernst-Ulrich Frobenius distributions of elliptic curves over finite prime fields. **2004d:11048**
— Asymptotically optimal towers of curves over finite fields. (English summary) **2004m:11094**
Hansen, Johan P. Dependent rational points on curves over finite fields—Lefschetz theorems and exponential sums. (English summary) **2004c:11107**
Hu, Lei (*with* Feng, Deng Guo; Wen, Tie Hua) Fast multiplication on a family of Koblitz elliptic curves. (Chinese. English and Chinese summaries)
Jiang, Jian Jun (*with* Zhu, Wen Yu; Zhou, Xing Wang[2]) Another proof of the well-known result that the points on an elliptic curve form a group. (Chinese. English summary)
Korchmáros, Gábor (*with* Torres, Fernando) On the genus of a maximal curve. (English summary) **2004b:11087**
(Lauter, Kristin E.) *see* **Savitt, David**, **2004i:11059**
Naumann, Niko On the irreducibility of the two variable zeta-function for curves over finite fields. (English and French summaries) **2004e:11067**
Perret, Marc *see* **Aubry, Yves**, **2004m:11092**
Satoh, Takakazu On p-adic point counting algorithms for elliptic curves over finite fields. (English summary) **2004k:11098**
Savitt, David The maximum number of points on a curve of genus 4 over $\mathbb{F}_8$ is 25. (English summary) **2004i:11059**
Shparlinski, Igor E. *see* **Banks, William D.**, **2004c:11105**
Siciliano, Alessandro *see* **Cossidente, Antonio**, **2004c:11106**
Skjernaa, Berit Satoh's algorithm in characteristic 2. (English summary) **2004c:11108**
Sury, B. Elliptic curves over finite fields. (*see* **2004m:11085**)
Top, Jaap *see* **Auer, Roland**, **2004m:11093**
Torres, Fernando *see* **Korchmáros, Gábor**, **2004b:11087**
Wen, Tie Hua *see* **Hu, Lei et al.**
Xing, Chaoping Applications of algebraic curves to constructions of sequences. (English summary) **2004e:11068**
Zhou, Xing Wang[2] *see* **Jiang, Jian Jun et al.**
Zhu, Wen Yu *see* **Jiang, Jian Jun et al.**

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Chee, Seongtaek *see* **Cheon, Jung Hee**, **2004j:94023**
Cheon, Jung Hee (*with* Chee, Seongtaek) Nonlinearity of Boolean functions and hyperelliptic curves. (English summary) **2004j:94023**
Cojocaru, Alina Carmen On the cyclicity of the group of $\mathbb{F}_p$-rational points of non-CM elliptic curves. (English summary) **2004a:11045**
Diem, Claus The GHS attack in odd characteristic. (English summary) **2004a:14030**
Elkies, Noam D. *see* **Li, Wen-Ching Winnie et al.**, **2004m:11192**
Galbraith, Steven D. Supersingular curves in cryptography. (English summary) **2004b:14037**
— Weil descent of Jacobians. (English summary) **2004d:14020**
— Weil descent of Jacobians. (English summary) **2004m:14046**
Garcia, Arnaldo (*with* Stichtenoth, Henning; Rück, Hans-Georg) On tame towers over finite fields. (English summary) **2004e:11133**
Hahn, Sang Geun *see* **Park, Je Hong et al.**, **2004b:11171**
Hess, Florian A note on the Tate pairing of curves over finite fields. (English summary) **2004m:14040**
Holzapfel, Rolf-Peter (*with* Nicolae, Florin) Arithmetic on a family of Picard curves. (English summary) **2004f:11061**
Hu, Wan Bao Generalized Hamming weight of algebraic geometric codes from algebraic curves $y^q + y = x^{q^r+1}$. (English and Chinese summaries) **2004m:94106**
Koblitz, Neal Good and bad uses of elliptic curves in cryptography. (English and Russian summaries) **2004d:14025**
Li, Wen-Ching Winnie (*with* Maharaj, Hiren; Stichtenoth, Henning; Elkies, Noam D.) New optimal tame towers of function fields over small finite fields. **2004m:11192**
Maharaj, Hiren *see* **Li, Wen-Ching Winnie et al.**, **2004m:11192**
Matignon, Michel Vers un algorithme pour la réduction stable des revêtements p-cycliques de la droite projective sur un corps p-adique. (English summary) [Toward an algorithm for the stable reduction of p-cyclic covers of the projective line over a p-adic field] **2004e:14041**
Mortenson, Eric A supercongruence conjecture of Rodriguez-Villegas for a certain truncated hypergeometric function. (English summary) **2004e:11089**
Nicolae, Florin *see* **Holzapfel, Rolf-Peter**, **2004f:11061**
Pacheco, Amilcar Distribution of the traces of Frobenius on elliptic curves over function fields. **2004a:11046**
Park, Je Hong (*with* Park, Jung Youl; Hahn, Sang Geun) Elliptic curve point counting over finite fields with Gaussian normal basis. (English summary) **2004b:11171**
Park, Jung Youl *see* **Park, Je Hong et al.**, **2004b:11171**
Rück, Hans-Georg *see* **Garcia, Arnaldo et al.**, **2004e:11133**
Satoh, Takakazu (*with* Skjernaa, Berit; Taguchi, Yuichiro) Fast computation of canonical lifts of elliptic curves and its application to point counting. (English summary) **2004b:14038**
Scherk, John The ramification polygon for curves over a finite field. (English summary) **2004c:11220**
Scholten, Jasper (*with* Zhu, Hui June) Slope estimates of Artin-Schreier curves. (English summary) **2004f:11141**
Schweizer, Andreas On Drinfeld modular curves with many rational points over finite fields. (English summary) **2004c:11096**
Skjernaa, Berit *see* **Satoh, Takakazu et al.**, **2004b:14038**
Smart, Nigel P. (*with* Westwood, E. J.) Point multiplication on ordinary elliptic curves over fields of characteristic three. (English summary) **2004f:94076**
Stichtenoth, Henning *see* **Garcia, Arnaldo et al.**, **2004e:11133** *and* **Li, Wen-Ching Winnie et al.**, **2004m:11192**
Taguchi, Yuichiro *see* **Satoh, Takakazu et al.**, **2004b:14038**
Thériault, Nicolas Weil descent attack for Kummer extensions. (English summary) **2004i:14025**
Tsfasman, M. A. Asymptotic properties of global fields. (English summary) **2004m:11189**
— (*with* Vlăduţ, S. G.) Infinite global fields and the generalized Brauer-Siegel theorem. (English summary) **2004f:11132**
Van Geel, Jan (*with* Yanchevskiĭ, V. I.) The index of certain hyperelliptic curves over p-adic fields. **2004k:14034**
Vlăduţ, S. G. *see* **Tsfasman, M. A.**, **2004f:11132**
Washington, Lawrence C. ★ Elliptic curves. **2004e:11061**
Westwood, E. J. *see* **Smart, Nigel P.**, **2004f:94076**
Yanchevskiĭ, V. I. *see* **Van Geel, Jan**, **2004k:14034**
Zhu, Hui June *see* **Scholten, Jasper**, **2004f:11141**
Zuniga-Galindo, W. A. Exponential sums along p-adic curves. (English summary) **2004a:11083**

11G25 Varieties over finite and local fields [see also 14G15, 14G20]

Candelas, Philip (*with* De La Ossa, Xenia; Rodriguez-Villegas, Fernando) Calabi-Yau manifolds over finite fields. II. (English summary) **2004m:11095**
De La Ossa, Xenia *see* **Candelas, Philip et al.**, **2004m:11095**

Fu, Lei[1] (*with* Wan, Daqing) Total degree bounds for Artin L-functions and partial zeta functions. **2004b:11088**
— (*with* Wan, Daqing) Moment L-functions, partial L-functions and partial exponential sums. **2004k:11099**
Ghorpade, Sudhir R. (*with* Lachaud, Gilles) Number of solutions of equations over finite fields and a conjecture of Lang and Weil. (English summary) **2004f:11060**
— (*with* Lachaud, Gilles) Étale cohomology, Lefschetz theorems and number of points of singular varieties over finite fields. (English summary) **2004d:11049**
Grosse-Klönne, Elmar On families of pure slope L-functions. (English summary) **2004k:11100**
Lachaud, Gilles *see* **Ghorpade, Sudhir R., 2004d:11049** *and* **2004f:11060**
Lian, Bong H. (*with* Yau, Shing Tung) The nth root of the mirror map. (English summary) **2004i:11060**
Rodriguez-Villegas, Fernando *see* **Candelas, Philip et al., 2004m:11095**
Wan, Daqing *see* **Fu, Lei**[1], **2004b:11088** *and* **2004k:11099**
Yau, Shing Tung *see* **Lian, Bong H., 2004i:11060**

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André, Yves[1] ★ Period mappings and differential equations. From $\mathbb{C}$ to $\mathbb{C}_p$. **2004g:14014**
Baulina, Yu. N. On the problem of explicit evaluation of the number of solutions of the equation $a_1x_1^2 + \cdots + a_nx_n^2 = bx_1 \cdots x_n$ in a finite field. **2004e:11031**
— On exact formulas for the number of solutions of the equation $(x_1 + \cdots + x_n)^2 = ax_1 \cdots x_n$ in a finite field. (Russian. Russian summary) **2004f:11028**
Belkale, Prakash (*with* Brosnan, Patrick) Matroids, motives, and a conjecture of Kontsevich. (English summary) **2004g:14025**
Breuil, Christophe (*with* Messing, William) Torsion étale and crystalline cohomologies. (English summary) **2004k:14027**
Brosnan, Patrick *see* **Belkale, Prakash, 2004g:14025**
Denef, Jan (*with* Loeser, François) Motivic integration and the Grothendieck group of pseudo-finite fields. (English summary) **2004f:14040**
Goto, Yasuhiro $K3$ surfaces with symplectic group actions. (English summary) **2004i:14043**
Heath-Brown, D. R. (*with* Skorobogatov, A. N.) Rational solutions of certain equations involving norms. **2004b:14033**
(Kato, Fumiharu) *see* **André, Yves**[1], **2004g:14014**
Kazhdan, David A. (*with* Polishchuk, Alexander) Generalization of a theorem of Waldspurger to nice representations. **2004g:11040**
Loeser, François *see* **Denef, Jan, 2004f:14040**
Madore, David A. Équivalence rationnelles sur les hypersurfaces cubiques sur les corps p-adiques. (English summary) [Rational equivalence on cubic hypersurfaces over p-adic fields] **2004a:14010**
Messing, William *see* **Breuil, Christophe, 2004k:14027**
Oesterlé, Joseph A report on Pierre Colmez's theory of integration of 1-forms on p-adic varieties. **2004k:14033**
Polishchuk, Alexander *see* **Kazhdan, David A., 2004g:11040**
Saito, Takeshi[1] Weight spectral sequences and independence of l. (English summary) **2004i:14022**
Skorobogatov, A. N. *see* **Heath-Brown, D. R., 2004b:14033**
(Tsuzuki, Nobuo) *see* **André, Yves**[1], **2004g:14014**
Vâjâitu, Marian (*with* Zaharescu, Alexandru) Exponential sums and their role in number theory. II. **2004e:11084**
Zaharescu, Alexandru *see* **Vâjâitu, Marian, 2004e:11084**

11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [see also 14H25]

Baker, Matthew H. (*with* Ribet, Kenneth A.) Galois theory and torsion points on curves. (English and French summaries) **2004j:11058**
Bruin, Nils (*with* Flynn, E. V.) n-covers of hyperelliptic curves. (English summary) **2004b:11089**
Consani, Caterina (*with* Marcolli, Matilde) Spectral triples from Mumford curves. **2004i:11061**
Corvaja, Pietro (*with* Zannier, Umberto M.) On the number of integral points on algebraic curves. (English summary) **2004j:11059**
Cremona, John E. *see* **Siksek, Samir, 2004c:11109**
Dalawat, Chandan Singh Arithmetic on curves. (English summary) (*see* **2004m:11085**)
Flynn, E. V. (*with* Redmond, J.) Application of covering techniques to families of curves. (English summary) **2004g:11050**
— *see also* **Bruin, Nils, 2004b:11089**
Holzapfel, Rolf-Peter (*with* Nicolae, Florin) Arithmetic on a family of Picard curves. (English summary) **2004f:11061**
Marcolli, Matilde *see* **Consani, Caterina, 2004i:11061**
Miyake, Katsuya Some families of Mordell curves associated to cubic fields. (English summary) **2004j:11060**
Nicolae, Florin *see* **Holzapfel, Rolf-Peter, 2004f:11061**
Poulakis, Dimitrios Bounds for the smallest integer point of a rational curve. **2004a:11052**
Redmond, J. *see* **Flynn, E. V., 2004g:11050**
Ribet, Kenneth A. *see* **Baker, Matthew H., 2004j:11058**
Sall, Oumar Points algébriques de degré au plus 10 sur la septique de Fermat. (English summary) [Algebraic points of degree at most 10 on the Fermat curve of degree 7] **2004m:11096**
— Points algébriques sur certains quotients de courbes de Fermat. (English and French summaries) [Algebraic points on some quotients of Fermat curves] **2004b:11090**
Shaska, Tanush Genus 2 fields with degree 3 elliptic subfields. (English summary) **2004m:11097**
Siksek, Samir (*with* Cremona, John E.) On the Diophantine equation $x^2 + 7 = y^m$. **2004c:11109**
Tzermias, Pavlos Parametrization of low-degree points on a Fermat curve. **2004b:11091**
— Low-degree points on Hurwitz-Klein curves. (English summary) **2004j:11061**
Wolfart, Jürgen Regular dessins, endomorphisms of Jacobians, and transcendence. **2004h:11056**
Zannier, Umberto M. *see* **Corvaja, Pietro, 2004j:11059**

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Avanzi, Roberto M. (*with* Zannier, Umberto M.) The equation $f(X) = f(Y)$ in rational functions $X = X(t)$, $Y = Y(t)$. (English summary) **2004m:14057**
Caporaso, Lucia Remarks about uniform boundedness of rational points over function fields. (English summary) **2004d:14019**
Darmon, Henri (*with* Levesque, Claude) Infinite sums, Diophantine equations and Fermat's last theorem. (English summary) **2004c:11086**
Dèbes, Pierre (*with* Derome, Geoffroy) Finiteness results in descent theory. (English summary) **2004e:14042**
Derome, Geoffroy *see* **Dèbes, Pierre, 2004e:14042**
Gasbarri, Carlo Heights of vector bundles and the fundamental group scheme of a curve. (English summary) **2004c:14047**
Hammer, Horst (*with* Herrlich, F.) A remark on the moduli field of a curve. (English summary) **2004g:14030**
Herrlich, F. *see* **Hammer, Horst, 2004g:14030**
Lauter, Kristin E. The equivalence of the geometric and algebraic group laws for Jacobians of genus 2 curves. (English summary) **2004j:14032**
Levesque, Claude *see* **Darmon, Henri, 2004c:11086**
Mulase, Motohico (*with* Penkava, Michael) Periods of Strebel differentials and algebraic curves defined over the field of algebraic numbers. (English summary) **2004a:30039**
Penkava, Michael *see* **Mulase, Motohico, 2004a:30039**
Poulakis, Dimitrios (*with* Voskos, Evaggelos) On the distribution of integer points of rational curves. (English summary) **2004c:11034**
Stewart, Colin Bruce Universal deformations, rigidity, and Ihara's cocycle. (English summary) **2004b:11074**
Stoll, Michael (*with* Yang, Tonghai) On the L-function of the curves $y^2 = x^5 + A$. (English summary) **2004f:11063**
Tamagawa, Akio Arithmetic geometry of coverings of curves in positive characteristic. (Japanese)
Tavernier, Cédric Construction of modular curves and computation of their cardinality over $\mathbb{F}_p$. (English summary) **2004e:11065**
Voskos, Evaggelos *see* **Poulakis, Dimitrios, 2004c:11034**
Yang, Tonghai *see* **Stoll, Michael, 2004f:11063**
Zannier, Umberto M. *see* **Avanzi, Roberto M., 2004m:14057**

11G35 Varieties over global fields [see also 14G25]

Baragar, Arthur Orbits of curves on certain $K3$ surfaces. (English summary) **2004d:11050**
Broberg, Niklas Rational points on finite covers of $\mathbb{P}^1$ and $\mathbb{P}^2$. (English summary) **2004c:11110**
— (*with* Salberger, Per) Counting rational points on threefolds. (English summary) **2004i:11062**
Browning, T. D. Counting rational points on cubic and quartic surfaces. **2004b:11092**
Chambert-Loir, Antoine Théorèmes d'algébricité en géométrie diophantienne (d'après J.-B. Bost, Y. André, D. & G. Chudnovsky). (French summary) [Algebraicity theorems in Diophantine geometry (following J.-B. Bost, Y. André, D. and G. Chudnovsky)] **2004f:11062**
Chinburg, Ted (*with* Lau, Chi Fong; Rumely, Robert) Capacity theory and arithmetic intersection theory. (English summary) **2004h:11057**
Ellenberg, Jordan S. $K3$ surfaces over number fields with geometric Picard number one. (English summary) **2004j:11062**
Gonzalez-Aviles, Cristian D. Brauer groups and Tate-Shafarevich groups. (English summary) **2004d:11051**
Harari, David Weak approximation on algebraic varieties. (English summary) **2004k:11101**
Lau, Chi Fong *see* **Chinburg, Ted et al., 2004h:11057**
Rumely, Robert *see* **Chinburg, Ted et al., 2004h:11057**
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Swinnerton-Dyer, H. P. F. Diophantine equations: progress and problems. (English summary) **2004k:11102**
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Gasbarri, Carlo Heights of vector bundles and the fundamental group scheme of a curve. (English summary) **2004c:14047**
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Peyre, Emmanuel Points de hauteur bornée, topologie adélique et mesures de Tamagawa. (English and French summaries) [Points of bounded height, adelic topology and Tamagawa measures] **2004i:14021**
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11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [see also 14G10]

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— (*with* Greither, Cornelius) On the equivariant Tamagawa number conjecture for Tate motives. (English summary) **2004j:11063**
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11G45 Geometric class field theory [see also 11R37, 14C35, 19F05]

Gaitsgory, Dennis Geometric Langlands correspondence for GL_n. (English summary) **2004c:11114**
— Informal introduction to geometric Langlands. (English summary) (*see* **2004g:11037**)
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11G50 Heights [see also 14G40]

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Bombieri, Enrico (*with* Masser, D. W.; Zannier, Umberto M.) Finiteness results for multiplicatively dependent points on complex curves. **2004k:14079**
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Bruinier, Jan Hendrik (*with* Kühn, Ulf) Integrals of automorphic Green's functions associated to Heegner divisors. **2004d:11037**
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Gasbarri, Carlo Heights of vector bundles and the fundamental group scheme of a curve. (English summary) **2004c:14047**
Gubler, Walter Local and canonical heights of subvarieties. (English summary) **2004k:14039**
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Köhler, Kai (*with* Roessler, Damien) A fixed point formula of Lefschetz type in Arakelov geometry. IV. The modular height of C.M. abelian varieties. (English summary) **2004e:11064**
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— *see also* **Bombieri, Enrico et al., 2004k:14079**
Peyre, Emmanuel Points de hauteur bornée, topologie adélique et mesures de Tamagawa. (English and French summaries) [Points of bounded height, adelic topology and Tamagawa measures] **2004i:14021**
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11G55 Polylogarithms and relations with K-theory

Bowman, Douglas (*with* Bradley, David M.; Ryoo, Ji Hoon) Some multi-set inclusions associated with shuffle convolutions and multiple zeta values. (English summary) **2004c:11115**
Bradley, David M. *see* **Bowman, Douglas et al., 2004c:11115**
Fukaya, Takako The theory of Coleman power series for K_2. (English summary) **2004c:11116**
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Gangl, Herbert Functional equations for higher logarithms. (English summary) **2004m:11105**
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Hanamura, Masaki Polylogarithms and mixed motives.
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Ryoo, Ji Hoon *see* **Bowman, Douglas et al., 2004c:11115**
Takeda, Yuichiro Exact Hermitian cubes and the Zagier conjecture. (Japanese)
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Ulanskiĭ, E. A. Identities for generalized polylogarithms. (Russian. Russian summary) **2004f:11065**
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Cartier, Pierre Fonctions polylogarithmes, nombres polyzêtas et groupes pro-unipotents. (French summary) [Polylogarithm functions, polyzeta numbers and pro-unipotent groups] **2004i:19005**
Huber, Annette (*with* Kings, Guido) Bloch-Kato conjecture and Main Conjecture of Iwasawa theory for Dirichlet characters. (English summary) **2004m:11182**
Jang, Lee-Chae (*with* Kim, Taekyun; Lee, Deok-Ho; Park, Dal-Won) An application of polylogarithms in the analogs of Genocchi numbers. (English summary)
Kim, Taekyun *see* **Jang, Lee-Chae et al.**
Kimura, Kenichiro Elliptic units in K_2. (English summary) **2004i:11057**
Kings, Guido *see* **Huber, Annette, 2004m:11182**
Lalín, Matilde N. Some examples of Mahler measures as multiple polylogarithms. (English summary) **2004h:11082**
Lee, Deok-Ho *see* **Jang, Lee-Chae et al.**
Lucht, Lutz G. Reducible arithmetic functions, asymptotic mean behavior, and polylogarithms. **2004b:11009**
Nguyen Quang Do, Thong *see* **Benois, Denis, 2004c:11209**
Panzone, Pablo A simple proof of the irrationality of the trilog. (English summary) **2004b:11101**
Park, Dal-Won *see* **Jang, Lee-Chae et al.**
Smyth, Chris J. An explicit formula for the Mahler measure of a family of 3-variable polynomials. (English and French summaries) **2004k:11178**
Snaith, Victor P. The weight-two motivic complex of equicharacteristic local fields. (English summary) **2004i:19007**
Stopple, Jeffrey Stark conjectures for CM elliptic curves over number fields. (English summary) **2004k:11104**
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Wojtkowiak, Zdzisław Mixed Hodge structures and iterated integrals. I. **2004i:19006**
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Zhao, Jianqiang Multiple polylogarithms: analytic continuation, monodromy, and variations of mixed Hodge structures. (English summary) **2004b:14016**
Zudilin, V. V. Algebraic relations for multiple zeta values. (Russian. Russian summary) **2004k:11150**

11G99 None of the above, but in this section

Items with secondary classifications in 11G99

Borisov, Alexandr On a question of Craven and a theorem of Belyi. (English summary) **2004f:11136**

11Hxx Geometry of numbers {For applications in coding theory, see 94B75.}

11H06 Lattices and convex bodies [see also 11P21, 52C05, 52C07]

Bayer-Fluckiger, Eva Ideal lattices. **2004k:11108**
Chen, Yong-Gao (*with* Cheng, Lin-Feng) Visibility of lattice points. **2004g:11053**
Cheng, Lin-Feng *see* **Chen, Yong-Gao, 2004g:11053**
Dobrovol′skiĭ, M. N. (*with* Dobrovol′skiĭ, N. M.; Kiseleva, O. V.) On the product of generalized parallelepiped grids of integral lattices. (Russian. Russian summary) **2004m:11106**
Dobrovol′skiĭ, N. M. *see* **Dobrovol′skiĭ, M. N. et al., 2004m:11106**
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Martin, Gregory G. The limiting curve of Jarník's polygons. (English summary) **2004h:11059**
Quebbemann, H.-G. (*with* Rains, Eric M.) On the involutions fixing the class of a lattice. (English summary) **2004c:11118**
Rains, Eric M. *see* **Quebbemann, H.-G., 2004c:11118**
Žunić, Joviša Limit shape of Jarník's polygonal curve is a circle. **2004a:11056**

Items with secondary classifications in 11H06

Bonnecaze, Alexis (*with* Choie, YoungJu; Dougherty, Steven T.; Solé, Patrick) Splitting the shadow. (English summary) **2004f:11045**
Bruns, Winfried (*with* Gubeladze, Joseph) Unimodular covers of multiples of polytopes. (English summary) **2004i:52015**
Choie, YoungJu *see* **Bonnecaze, Alexis et al., 2004f:11045**
Clozel, Laurent (*with* Ullmo, E.) Rigidité de l'action des opérateurs de Hecke sur les espaces de réseaux. [Rigidity of the action of Hecke operators on spaces of lattices] **2004m:11071**
Dougherty, Steven T. *see* **Bonnecaze, Alexis et al., 2004f:11045**
Fomenko, O. M. The distribution of lattice points on hyperboloids. (Russian. Russian summary) **2004m:11159**
Griess, Robert L., Jr. Positive definite lattices of rank at most 8. (English summary) **2004h:11060**
Gubeladze, Joseph *see* **Bruns, Winfried, 2004i:52015**
Kumar, S. Ravi (*with* Sivakumar, D.) On polynomial-factor approximations to the shortest lattice vector length. (English summary) **2004i:68086**
Schinzel, Andrzej A property of polynomials with an application to Siegel's lemma. (English summary) **2004h:11022**
(Shalom, Yehuda) *see* **Clozel, Laurent, 2004m:11071**
Sivakumar, D. *see* **Kumar, S. Ravi, 2004i:68086**
Solé, Patrick *see* **Bonnecaze, Alexis et al., 2004f:11045**
Ullmo, E. *see* **Clozel, Laurent, 2004m:11071**
Vaaler, Jeffrey D. The best constant in Siegel's lemma. (English summary) **2004j:11072**
Vinatier, Stéphane Sur la racine carrée de la codifférente. (English and French summaries) [On the square root of the inverse different] **2004j:11135**
Zarelua, A. V. On some lattices associated with a finite group. (Russian. Russian summary) **2004e:20006**

11H16 Nonconvex bodies

Yudin, Vladimir Aleksandrovich The number of lattice points in a spherical shell. (Russian. Russian summary) **2004e:11073**

Items with secondary classifications in 11H16

Castro, D. (*with* Pardo, L. M.; San Martín H., Jorge) Systems of rational polynomial equations have polynomial size approximate zeros on the average. (English summary) **2004b:11093**
Jackson, Terence Quaternary quadratic forms and an associated lattice constant. (English summary) **2004a:11059**
Pardo, L. M. *see* **Castro, D. et al., 2004b:11093**

San Martín H., Jorge *see* **Castro, D. et al., 2004b:11093**

11H31 Lattice packing and covering [see also 05B40, 52C15, 52C17]

Anzin, M. M. On the density of a lattice covering for $n = 11$ and $n = 14$. (Russian. Russian summary) **2004i:11066**
Barykinskiĭ, R. G. On a property of the densest lattice packings of balls in dimensions 11 and 12. (Russian) **2004m:11107**
Bayer-Fluckiger, Eva Determinants of integral ideal lattices and automorphisms of given characteristic polynomial. (English summary) **2004c:11119**
Cohn, Henry (*with* Elkies, Noam D.) New upper bounds on sphere packings. I. (English summary) **2004b:11096**
Elia, Michele (*with* Interlando, José Carmelo) A class of Fibonacci ideal lattices in $\mathbb{Z}[\zeta_{12}]$. **2004j:11067**
Elkies, Noam D. *see* **Cohn, Henry, 2004b:11096**
Hans-Gill, R. J. The billiard ball motion problem. I. A Markoff type chain for the octahedron in $\mathbf{R}^3$. **2004j:11068**
— The billiard ball motion problem. II. l_p-balls in $\mathbf{R}^3$, $1 < p < \infty$. (English summary) **2004k:11109**
Interlando, José Carmelo *see* **Elia, Michele, 2004j:11067**
Nebe, Gabriele Even lattices with covering radius $< \sqrt{2}$. **2004c:11120**
— (*with* Venkov, Boris) Unimodular lattices with long shadow. (English summary) **2004a:11057**
Rzhevskiĭ, M. G. *see* **Vsemirnov, M. A., 2004d:11054**
Venkov, Boris *see* **Nebe, Gabriele, 2004a:11057**
Vsemirnov, M. A. (*with* Rzhevskiĭ, M. G.) An upper bound for the contact number in dimension 9. (Russian) **2004d:11054**
Zong, Chuanming Simultaneous packing and covering in three-dimensional Euclidean space. (English summary) **2004a:11058**

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Heppes, Aladár Expandability radius versus density of a lattice packing. (English summary) **2004c:52026**
Hoffmann, Norbert Stability of Arakelov bundles and tensor products without global sections. (English summary) **2004m:14045**
Shioda, Tetsuji Integral points and Mordell-Weil lattices. (English summary) **2004c:11090**
Yudin, Vladimir Aleksandrovich The number of lattice points in a spherical shell. (Russian. Russian summary) **2004e:11073**

11H46 Products of linear forms

Narzullaev, Kh. N. (*with* Ramharter, G.) On the *DOTU*-factorization problem in dimension four. (English summary) **2004b:11097**
Ramharter, G. *see* **Narzullaev, Kh. N., 2004b:11097**

Items with secondary classifications in 11H46

Avdeeva, M. O. (*with* Bykovskiĭ, V. A.) An analogue of Vahlen's theorem for simultaneous approximations of a pair of numbers. (Russian. Russian summary) **2004j:11069**
Bykovskiĭ, V. A. *see* **Avdeeva, M. O., 2004j:11069**
Summerer, Leonhard Forms represented by linear forms. (English summary) **2004h:11035**
Tomanov, George Actions of maximal tori on homogeneous spaces. (English summary) **2004a:22011**

11H50 Minima of forms

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Jackson, Terence Quaternary quadratic forms and an associated lattice constant. (English summary) **2004a:11059**

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Ramharter, G. *see* **Narzullaev, Kh. N., 2004b:11097**

11H55 Quadratic forms (reduction theory, extreme forms, etc.)

Barykinskiĭ, R. G. A relative Ryshkov perfect polyhedron as a generatrix of a W-tiling. (Russian. Russian summary) **2004g:11054**
Erdahl, Robert (*with* Rybnikov, K. A., Jr.) An infinite series of perfect quadratic forms and big Delaunay simplices in $\mathbb{Z}^n$. (English summary) **2004f:11066**
Graham, Ronald L. (*with* Lagarias, Jeffrey C.; Mallows, Colin L.; Wilks, Allan R.; Yan, Catherine H.) Apollonian circle packings: number theory. (English summary) **2004d:11055**
Gramušnjak, Tatjana *see* **Tammela, P., 2004b:11098**
Lagarias, Jeffrey C. *see* **Graham, Ronald L. et al., 2004d:11055**
Mallows, Colin L. *see* **Graham, Ronald L. et al., 2004d:11055**
Rybnikov, K. A., Jr. *see* **Erdahl, Robert, 2004f:11066**
Tammela, P. (*with* Gramušnjak, Tatjana) On C-types of positive definite quadratic forms. (English summary) **2004b:11098**
Wilks, Allan R. *see* **Graham, Ronald L. et al., 2004d:11055**
Yan, Catherine H. *see* **Graham, Ronald L. et al., 2004d:11055**

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Budarina, N. V. Deformations of Diophantine systems for quadratric forms of cubic lattices. (Russian. Russian summary) **2004e:11032**
Poor, Cris (*with* Yuen, David S.) Slopes of integral lattices. (English summary) **2004c:11066**
Yuen, David S. *see* **Poor, Cris, 2004c:11066**

11H56 Automorphism groups of lattices

Gross, Benedict H. Unramified reciprocal polynomials and Coxeter decompositions. (English and Russian summaries) **2004d:11056**

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Ebeling, Wolfgang The Poincaré series of some special quasihomogeneous surface singularities. (English summary) **2004e:14059**
Quebbemann, H.-G. (*with* Rains, Eric M.) On the involutions fixing the class of a lattice. (English summary) **2004c:11118**
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11H71 Relations with coding theory

Harada, Masaaki (*with* Kitazume, Masaaki; Ozeki, Michio) Ternary code construction of unimodular lattices and self-dual codes over $\mathbb{Z}_6$. (English summary) **2004b:11099**
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Ozeki, Michio *see* **Harada, Masaaki et al., 2004b:11099**

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Antonini, Marc *see* **Loyer, Pierre et al., 2004e:94023**
Bonnecaze, Alexis (*with* Choie, YoungJu; Dougherty, Steven T.; Solé, Patrick) Splitting the shadow. (English summary) **2004f:11045**
Canogar-Mckenzie, Roberto *see* **Martínez-Moro, Edgar, 2004b:05207**
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Choie, YoungJu *see* **Bonnecaze, Alexis et al., 2004f:11045**
Dougherty, Steven T. *see* **Bonnecaze, Alexis et al., 2004f:11045** *and* **Chapman, Robin et al., 2004g:94091**
Gaborit, Philippe *see* **Chapman, Robin et al., 2004g:94091**
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Loyer, Pierre (*with* Moureaux, Jean-Marie; Antonini, Marc) Lattice codebook enumeration for generalized Gaussian source. (English summary) **2004e:94023**
Martínez-Moro, Edgar (*with* Canogar-Mckenzie, Roberto) On the structure of multipliers of $\mathbb{Z}^2$. (English summary) **2004b:05207**
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11H99 None of the above, but in this section

Items with secondary classifications in 11H99

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11Jxx Diophantine approximation, transcendental number theory [see also 11K60]

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(Amoroso, Francesco) *see* **Masser, D. W. et al., 2004f:11002**
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Schmidt, Wolfgang M. *see* **Masser, D. W. et al., 2004f:11002**
Waldschmidt, Michel *see* **Masser, D. W. et al., 2004f:11002**
(Zannier, Umberto M.) *see* **Masser, D. W. et al., 2004f:11002**

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Diophantine approximation *see* **Masser, D. W. et al., 2004f:11002**
Lecture Notes in Mathematics *see* **Masser, D. W. et al., 2004f:11002**

11J04 Homogeneous approximation to one number

Bugeaud, Yann Mahler's classification of numbers compared with Koksma's. **2004g:11055**
Calogero, Francesco Cool irrational numbers and their rather cool rational approximations. **2004f:11067**
Elsner, Carsten On rational approximations with denominators from thin sets. II. (English summary) **2004a:11060**
— On inhomogeneous Diophantine approximations with rational terms and applications to elliptic and trigonometric functions. (English summary) **2004a:11061**
— On rational approximations by Pythagorean numbers. **2004c:11121**
Roy, Damien Approximation to real numbers by cubic algebraic integers. II. (English summary) **2004k:11110**
Tasoev, B. G. On the best rational approximations to the transcendental numbers $\psi(x) \cdot e^x$. (Russian. Russian summary) **2004k:11111**
— On the best rational approximations to the transcendental numbers $\psi(x) \cdot e^x$. II. (Russian. Russian summary) **2004k:11112**
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Items with secondary classifications in 11J04

El-Sedy, Esam S. *see* **Siksek, Samir, 2004f:11072**

Jia, Chao Hua On the distribution of αp modulo one. (English summary) **2004b:11114**
Komatsu, Takao² Recurrence relations of the leaping convergents. (English summary) **2004j:11008**
Laurent, Michel Simultaneous rational approximation to the successive powers of a real number. (English summary) **2004j:11070**
Roy, Damien Approximation to real numbers by cubic algebraic integers. I. **2004i:11067**
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Tasoev, B. G. On rational approximations of the algebraic numbers $\sqrt[3]{D}$. (Russian. Russian summary) **2004k:11115**

11J06 Markov and Lagrange spectra and generalizations

Maucourant, François Sur les spectres de Lagrange et de Markoff des corps imaginaires quadratiques. (English and French summaries) [Lagrange and Markov spectra on imaginary quadratic fields] **2004a:11062**

Items with secondary classifications in 11J06

Banks, William D. (*with* Harcharras, Asma; Shparlinski, Igor E.) Short Kloosterman sums for polynomials over finite fields. (English summary) **2004f:11140**
Harcharras, Asma *see* **Banks, William D. et al., 2004f:11140**
Shparlinski, Igor E. *see* **Banks, William D. et al., 2004f:11140**
Slavov, Kaloyan St. On the unicity conjecture for the Hurwitz equation. (English and Bulgarian summaries) **2004f:11025**

11J13 Simultaneous homogeneous approximation, linear forms

Arbour, Benoit (*with* Roy, Damien) A Gel'fond type criterion in degree two. **2004k:11113**
Avdeeva, M. O. (*with* Bykovskiĭ, V. A.) An analogue of Vahlen's theorem for simultaneous approximations of a pair of numbers. (Russian. Russian summary) **2004j:11069**
Biró, András (*with* Sós, Vera T.) Strong characterizing sequences in simultaneous Diophantine approximation. (English summary) **2004c:11122**
Borisov, Alexandr (*with* Shokurov, Vyacheslav V.) Directional rational approximations with some applications to algebraic geometry. (Russian. Russian summary) **2004h:11061**
Briggs, Keith Some explicit badly approximable pairs. (English summary) **2004g:11056**
Bykovskiĭ, V. A. *see* **Avdeeva, M. O., 2004j:11069**
Fujii, Junko *see* **Ito, Shunji et al., 2004a:11063**
Fujimori, Masami On systems of linear inequalities. (English and French summaries) **2004c:11123**
Higashino, Hiroko *see* **Ito, Shunji et al., 2004a:11063**
Ito, Shunji (*with* Fujii, Junko; Higashino, Hiroko; Yasutomi, Shin-ichi) On simultaneous approximation to (α, α^2) with $\alpha^3 + k\alpha - 1 = 0$. (English summary) **2004a:11063**
Laurent, Michel Simultaneous rational approximation to the successive powers of a real number. (English summary) **2004j:11070**
Moshchevitin, N. G. On the Blichfeldt-Mullender-Spohn theorem on simultaneous approximations. (Russian. Russian summary) **2004c:11124**
Roy, Damien (*with* Waldschmidt, Michel) Diophantine approximation by conjugate algebraic integers. (English summary) **2004m:11108**
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— *see also* **Arbour, Benoit, 2004k:11113**
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Silaeva, N. A. Simultaneous approximation of zero by values of normal functions in different metrics and the Khinchin theorem. (Russian. English and Russian summaries)
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Tishchenko, K. I. On the simultaneous approximation of two real numbers by roots of the same integer polynomials. (Russian. English and Russian summaries)
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Items with secondary classifications in 11J13

Dickinson, Henrietta (*with* Gramchev, Todor; Yoshino, Masafumi) Perturbations of vector fields on tori: resonant normal forms and Diophantine phenomena. (English summary) **2004h:37020**
Gramchev, Todor *see* **Dickinson, Henrietta et al., 2004h:37020**
Lochak, Pierre Simultaneous Diophantine approximation in classical pertubation theory: why and what for? (English summary) **2004b:37121**
Roy, Damien Approximation to real numbers by cubic algebraic integers. II. (English summary) **2004k:11110**
Schlickewei, Hans Peter Approximation of algebraic numbers. **2004i:11070**
Silaeva, N. A. Simultaneous approximations of zero by values of normal functions in different metrics. (Russian. English and Russian summaries) **2004i:11081**
Wang, Julie Tzu-Yueh An effective Schmidt's subspace theorem over function fields. (English summary) **2004m:11117**
Yoshino, Masafumi *see* **Dickinson, Henrietta et al., 2004h:37020**

11J17 Approximation by numbers from a fixed field

Yuan, Pingzhi On algebraic approximations of certain algebraic numbers. (English summary) **2004f:11068**

11J20 Inhomogeneous linear forms

Chen, Xiao Feng (*with* Wang, Yu Min; Zhang, Wen Peng) A sum analogous to the Dedekind sum and its 4th-degree mean value formula. (Chinese. English and Chinese summaries)
Wang, Yu Min *see* **Chen, Xiao Feng et al.**
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Items with secondary classifications in 11J20

Dickinson, Henrietta (*with* Gramchev, Todor; Yoshino, Masafumi) Perturbations of vector fields on tori: resonant normal forms and Diophantine phenomena. (English summary) **2004h:37020**
Gramchev, Todor *see* **Dickinson, Henrietta et al., 2004h:37020**
Harman, Glyn Simultaneous Diophantine approximation and asymptotic formulae on manifolds. **2004c:11143**
Yoshino, Masafumi *see* **Dickinson, Henrietta et al., 2004h:37020**

11J25 Diophantine inequalities [see also 11D75]

Bugeaud, Yann (*with* Corvaja, Pietro; Zannier, Umberto M.) An upper bound for the G.C.D. of $a^n - 1$ and $b^n - 1$. **2004a:11064**
Corvaja, Pietro *see* **Bugeaud, Yann et al., 2004a:11064**
Ferretti, Roberto G. Diophantine approximations and toric deformations. (English summary) **2004d:11057**
Nagata, Makoto Diophantine approximations related to rational values of G-functions. **2004e:11074**
Queffélec, Martine Approximations diophantiennes des nombres sturmiens. (English and French summaries) [Diophantine approximations of Sturmian numbers] **2004k:11114**
Schmeling, Jörg *see* **Troubetzkoy, Serge E., 2004j:11071**
Troubetzkoy, Serge E. (*with* Schmeling, Jörg) Inhomogeneous Diophantine approximations and angular recurrence for billiards in polygons. (Russian. Russian summary) **2004j:11071**
Vaaler, Jeffrey D. The best constant in Siegel's lemma. (English summary) **2004j:11072**
Zannier, Umberto M. *see* **Bugeaud, Yann et al., 2004a:11064**

Items with secondary classifications in 11J25

Babillot, Martine Points entiers et groupes discrets: de l'analyse aux systèmes dynamiques. (English and French summaries) [Lattice points and discrete groups: from analysis to dynamical systems] **2004i:37057**
(Breuillard, Emmanuel) *see* **Babillot, Martine, 2004i:37057**
Corvaja, Pietro (*with* Zannier, Umberto M.) On the number of integral points on algebraic curves. (English summary) **2004j:11059**
Hernández, Santos (*with* Luca, Florian) On the largest prime factor of $(ab + 1)(ac + 1)(bc + 1)$. (English summary) **2004i:11028**
Luca, Florian *see* **Hernández, Santos, 2004i:11028**
Schlickewei, Hans Peter Approximation of algebraic numbers. **2004i:11070**
Wang, Julie Tzu-Yueh An effective Schmidt's subspace theorem over function fields. (English summary) **2004m:11117**
Yuan, Pingzhi On algebraic approximations of certain algebraic numbers. (English summary) **2004f:11068**
Zannier, Umberto M. *see* **Corvaja, Pietro, 2004j:11059**

11J54 Small fractional parts of polynomials and generalizations

Zaharescu, Alexandru Correlation of fractional parts of $n^2\alpha$. (English summary) **2004a:11065**

Items with secondary classifications in 11J54

Allakov, I. On the distribution of fractional parts of a sequence $\{\alpha p^k\}$ with prime arguments in an arithmetic progression. (Russian) **2004m:11119**
Dietmann, Rainer Cubic forms modulo one. (English summary) **2004k:11040**

11J61 Approximation in non-Archimedean valuations

Beresnevich, V. V. (*with* Bernik, V. I.; Kovalevskaya, È. I.) Metric theorems on the approximation of p-adic numbers by algebraic numbers of bounded degree. (Russian. English and Russian summaries) **2004j:11073**
— (*with* Kovalevskaya, È. I.) On Diophantine approximations of dependent quantities in the p-adic case. (Russian. Russian summary) **2004g:11057**
Bernik, V. I. *see* **Beresnevich, V. V. et al., 2004j:11073**
Duru, Hülya Semi-strong U numbers in the p-adic field $\mathbf{Q}_p$. (English summary) **2004c:11125**
Inoue, Kae (*with* Nakada, Hitoshi) On metric Diophantine approximation in positive characteristic. **2004i:11068**
— On the exponential convergence of Jacobi-Perron algorithm over $\mathbb{F}(X)^d$. (English summary) **2004f:11069**
Kovalevskaya, È. I. p-adic variant of the convergence Khintchine theorem for curves over $\mathbb{Z}_p$. (English summary) **2004a:11066**
— Diophantine approximations of points of a class of space curves over $\mathbf{Z}_p$. (Russian. English and Russian summaries) **2004i:11069**
— *see also* **Beresnevich, V. V. et al., 2004g:11057** *and* **2004j:11073**
Nakada, Hitoshi *see* **Inoue, Kae, 2004i:11068**
Thakur, Dinesh S. Diophantine approximation in finite characteristic. (English summary) **2004m:11109**

Items with secondary classifications in 11J61

Alexandru, Victor (*with* Zaharescu, Alexandru) A transcendence criterion over p-adic fields. (English summary) **2004i:12009**
Hernández, Santos (*with* Luca, Florian) On the largest prime factor of $(ab + 1)(ac + 1)(bc + 1)$. (English summary) **2004i:11028**
Kristensen, Simon On well-approximable matrices over a field of formal series. (English summary) **2004i:11080**
Lasjaunias, Alain Continued fractions for certain algebraic power series over a finite field. (English summary) **2004d:11058**
Luca, Florian *see* **Hernández, Santos, 2004i:11028**
Roy, Damien (*with* Waldschmidt, Michel) Diophantine approximation by conjugate algebraic integers. (English summary) **2004m:11108**

Silaeva, N. A. Simultaneous approximations of zero by values of normal functions in different metrics. (Russian. English and Russian summaries) **2004i:11081**
Waldschmidt, Michel *see* **Roy, Damien**, **2004m:11108**
Yu, Kunrui Report on p-adic logarithmic forms. **2004a:11073**
Zaharescu, Alexandru *see* **Alexandru, Victor**, **2004i:12009**

11J68 Approximation to algebraic numbers

Bombieri, Enrico Forty years of effective results in Diophantine theory. **2004c:11126**
Borwein, Peter B. (*with* Hare, Kevin G.) Non-trivial quadratic approximations to zero of a family of cubic Pisot numbers. (English summary) **2004e:11075**
Faltings, Gerd A new application of Diophantine approximations. **2004b:11100**
Hare, Kevin G. *see* **Borwein, Peter B.**, **2004e:11075**
Schlickewei, Hans Peter Approximation of algebraic numbers. **2004i:11070**
Shorey, T. N. Approximations of algebraic numbers by rationals: a theorem of Thue. (*see* **2004m:11085**)
Tasoev, B. G. On rational approximations of the algebraic numbers $\sqrt[n]{D}$. (Russian. Russian summary) **2004k:11115**

Items with secondary classifications in 11J68

Adhikari, Sukumar Das (*with* Ramana, D. S.) Siegel's theorem: finiteness of integral points. (English summary) (*see* **2004m:11085**)
Avalishvili, G. A. Nonlocal in time problems for evolution equations of second order. (English summary) **2004c:34161**
Dubickas, Artūras Some Diophantine properties of the Mahler measure. (Russian. Russian summary) **2004b:11148**
Dujella, Andrej (*with* Jadrijević, Borka) A family of quartic Thue inequalities. **2004m:11044**
Hernández, Santos (*with* Luca, Florian) Common factors of shifted Fibonacci numbers. (English summary) **2004h:11017**
Jadrijević, Borka *see* **Dujella, Andrej**, **2004m:11044**
Luca, Florian *see* **Hernández, Santos**, **2004h:11017**
Nyblom, M. A. An extension of a result of Sierpiński. (English summary) **2004k:11118**
Ramana, D. S. *see* **Adhikari, Sukumar Das**, (**2004m:11085**)
Troessaert, Gérald (*with* Valette, Alain) On values at integer points of some irrational, binary quadratic forms. (English summary) **2004e:11033**
Valette, Alain *see* **Troessaert, Gérald**, **2004e:11033**

11J70 Continued fractions and generalizations [see also 11A55, 11K50]

Astels, Steve Products and quotients of numbers with small partial quotients. (English and French summaries) **2004m:11110**
Baltus, Christopher Continued fractions and the first proofs that π is irrational. (English summary) **2004i:11071**
Chaichana, Tuangrat (*with* Laohakosol, Vichian; Harnchoowong, Ajchara) Ruban continued fraction in fields of positive characteristic. (English summary) **2004h:11062**
Fan, Ai Hua[1] (*with* Wu, Jun[2]) Approximation orders of formal Laurent series by Oppenheim rational functions. (English summary) **2004f:11070**
Gashkov, S. B. (*with* el′ Oveĭkhan, Marzuk) Complexity of the approximation of irrational numbers by rational numbers. (Russian. Russian summary) **2004f:11071**
Hančl, Jaroslav Linear independence of continued fractions. (English and French summaries) **2004m:11111**
Hardcastle, D. M. (*with* Khanin, Konstantin) The d-dimensional Gauss transformation: strong convergence and Lyapunov exponents. (English summary) **2004a:11067**
— The three-dimensional Gauss algorithm is strongly convergent almost everywhere. (English summary) **2004a:11068**
Harnchoowong, Ajchara *see* **Chaichana, Tuangrat et al.**, **2004h:11062**
Khanin, Konstantin *see* **Hardcastle, D. M.**, **2004a:11067**
Laohakosol, Vichian *see* **Chaichana, Tuangrat et al.**, **2004h:11062**
Lasjaunias, Alain Continued fractions for certain algebraic power series over a finite field. (English summary) **2004d:11058**
Martynov, A. V. An order relation of Diophantine type. (Russian. Russian summary) **2004m:11112**
de Mathan, Bernard Conjecture de Littlewood et récurrences linéaires. (English and French summaries) [The Littlewood conjecture and linear recurrences] **2004j:11074**
el′ Oveĭkhan, Marzuk *see* **Gashkov, S. B.**, **2004f:11071**
de Spinadel, Vera W. The metallic means and design. **2004h:11063**
Tasoev, B. G. On rational approximations to Hurwitz continued fractions. (Russian. Russian summary)
Tong, Jingcheng Symmetric and asymmetric Diophantine approximation. (English summary) **2004m:11113**
Wu, Jun[2] *see* **Fan, Ai Hua[1]**, **2004f:11070**

Items with secondary classifications in 11J70

Amou, Masaaki (*with* Matala-aho, Tapani) Arithmetical properties of solutions of linear second order q-difference equations. (English summary) **2004c:11129**
Arnoux, P. (*with* Berthé, V.; Ito, Shunji) Discrete planes, $\mathbb{Z}^2$-actions, Jacobi-Perron algorithm and substitutions. (English and French summaries) **2004d:37012**
Avdeeva, M. O. (*with* Bykovskiĭ, V. A.) An analogue of Vahlen's theorem for simultaneous approximations of a pair of numbers. (Russian. Russian summary) **2004j:11069**
Berthé, V. *see* **Fogg, N. Pytheas**, **2004c:37005** *and* **Arnoux, P. et al.**, **2004d:37012**
Bykovskiĭ, V. A. *see* **Avdeeva, M. O.**, **2004j:11069**
Elsner, Carsten On rational approximations with denominators from thin sets. II. (English summary) **2004a:11060**
— On inhomogeneous Diophantine approximations with rational terms and applications to elliptic and trigonometric functions. (English summary) **2004a:11061**
— On rational approximations by Pythagorean numbers. **2004c:11121**
(Ferenczi, Sébastien) *see* **Fogg, N. Pytheas**, **2004c:37005**
Fogg, N. Pytheas ★ Substitutions in dynamics, arithmetics and combinatorics. **2004c:37005**
Fuchs, Michael An analogue of a theorem of Szüsz for formal Laurent series over finite fields. (English summary) **2004d:11068**
Fujii, Junko *see* **Ito, Shunji et al.**, **2004a:11063**
Higashino, Hiroko *see* **Ito, Shunji et al.**, **2004a:11063**
Ito, Shunji (*with* Fujii, Junko; Higashino, Hiroko; Yasutomi, Shin-ichi) On simultaneous approximation to (α, α^2) with $\alpha^3 + k\alpha - 1 = 0$. (English summary) **2004a:11063**
— *see also* **Arnoux, P. et al.**, **2004d:37012**
Komatsu, Takao[2] Recurrence relations of the leaping convergents. (English summary) **2004j:11008**
Lin, Qiang[1] (*with* Ono, Takashi) On two questions of Ono. (English summary) **2004g:11019**
Lubinsky, D. S. Rogers-Ramanujan and the Baker-Gammel-Wills (Padé) conjecture. (English summary) **2004b:30071**
Matala-aho, Tapani *see* **Amou, Masaaki**, **2004c:11129**
Maucourant, François Sur les spectres de Lagrange et de Markoff des corps imaginaires quadratiques. (English and French summaries) [Lagrange and Markov spectra on imaginary quadratic fields] **2004a:11062**
(Mauduit, Christian) *see* **Fogg, N. Pytheas**, **2004c:37005**
Nakada, Hitoshi (*with* Natsui, Rie) On the metrical theory of continued fraction mixing fibred systems and its application to Jacobi-Perron algorithm. (English summary) **2004i:37008**
Natsui, Rie *see* **Nakada, Hitoshi**, **2004i:37008**
Ono, Takashi *see* **Lin, Qiang[1]**, **2004g:11019**
Polterovich, Leonid Slow symplectic maps, continued fractions, and related stories. **2004c:37117**
Queffélec, Martine Approximations diophantiennes des nombres sturmiens. (English and French summaries) [Diophantine approximations of Sturmian numbers] **2004k:11114**
Ramharter, G. On the dynamics of the extension of a singular shift. (English summary) **2004k:37021**
Schweiger, Fritz Invariant measure and exponent of convergence for Baldwin's algorithm GCFP. (English summary) **2004k:11128**
(Siegel, Anne) *see* **Fogg, N. Pytheas**, **2004c:37005**
Tasoev, B. G. On the best rational approximations to the transcendental numbers $\psi(x) \cdot e^x$. (Russian. Russian summary) **2004k:11111**
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Thakur, Dinesh S. Diophantine approximation in finite characteristic. (English summary) **2004m:11109**
Yasutomi, Shin-ichi *see* **Ito, Shunji et al.**, **2004a:11063**

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Substitutions in dynamics, arithmetics and combinatorics *see* **Fogg, N. Pytheas**, **2004c:37005**

11J71 Distribution modulo one [see also 11K06]

Berend, Daniel (*with* Boshernitzan, Michael; Kolesnik, Grigori) Irrational dilations of Pascal's triangle. (English summary) **2004i:11072**
Boshernitzan, Michael *see* **Berend, Daniel et al.**, **2004i:11072**
Kolesnik, Grigori *see* **Berend, Daniel et al.**, **2004i:11072**
Kryžienė, Birutė (*with* Misevičius, Gintautas) On the uniform distribution of endomorphisms of s-dimensional torus. (English and Lithuanian summaries) **2004i:11073**
Misevičius, Gintautas *see* **Kryžienė, Birutė**, **2004i:11073**
Murty, Maruti Ram (*with* Srinivas, Kotyada) On the uniform distribution of certain sequences. (English summary) **2004j:11075**
Rittaud, Benoît Équidistribution presque partout modulo 1 de suites oscillantes perturbées. II. Cas liouvillien unidimensionnel. (English summary) [Uniform distribution almost everywhere modulo 1 of perturbed oscillating sequences. II. One-dimensional Liouville case] **2004k:11116**
Srinivas, Kotyada *see* **Murty, Maruti Ram**, **2004j:11075**

Items with secondary classifications in 11J71

Dubickas, Artūras Sequences with infinitely many composite numbers. (English summary) **2004a:11112**
Everest, Graham (*with* van der Poorten, Alfred J.; Shparlinski, Igor E.; Ward, Thomas B.) ★ Recurrence sequences. **2004c:11015**
van der Poorten, Alfred J. *see* **Everest, Graham et al.**, **2004c:11015**
Shparlinski, Igor E. *see* **Everest, Graham et al.**, **2004c:11015**
Skjernaa, Berit Satoh's algorithm in characteristic 2. (English summary) **2004c:11108**
Vâjâitu, Marian (*with* Zaharescu, Alexandru) Exponential sums and their role in number theory. II. **2004e:11084**
— (*with* Zaharescu, Alexandru) Sequences of values of power series over p-adic fields. (English summary) **2004i:11089**
Ward, Thomas B. *see* **Everest, Graham et al.**, **2004c:11015**
Zaharescu, Alexandru Correlation of fractional parts of $n^2\alpha$. (English summary) **2004a:11065**
— *see also* **Vâjâitu, Marian**, **2004e:11084** *and* **2004i:11089**

11J72 Irrationality; linear independence over a field

Borwein, Peter B. (*with* Zhou, Ping[2]) On the irrationality of a certain multivariate q series. (English summary) **2004a:11069**
Bundschuh, Peter New applications of a result of Galochkin on linear independence. (English summary) **2004i:11074**
El-Sedy, Esam S. *see* **Siksek, Samir**, **2004f:11072**
Fischler, Stéphane (*with* Rivoal, Tanguy) Approximants de Padé et séries hypergéométriques équilibrées. (English and French summaries) [Padé approximants and balanced hypergeometric series] **2004m:11114**

Hančl, Jaroslav (*with* Sobková, Simona) A general criterion for linearly unrelated sequences. (English summary) **2004k:11117**
Kim, Taekyun *see* **Pyung, In-Soo et al., 2004a:11070**
Nyblom, M. A. An extension of a result of Sierpiński. (English summary) **2004k:11118**
Okano, Takeshi A note on irrationality of some quantities that contain e. (English summary)
— A note on irrationality of some quantities. (English summary) **2004d:11059**
Panzone, Pablo A simple proof of the irrationality of the trilog. (English summary) **2004b:11101**
Pyung, In-Soo (*with* Son, Jin-Woo; Kim, Taekyun) On irrational of the analogue of $\zeta(3)$. **2004a:11070**
Rivoal, Tanguy *see* **Fischler, Stéphane, 2004m:11114**
Siksek, Samir (*with* El-Sedy, Esam S.) On the irrationality of certain rapidly convergent series. (English summary) **2004f:11072**
Sobková, Simona *see* **Hančl, Jaroslav, 2004k:11117**
Son, Jin-Woo *see* **Pyung, In-Soo et al., 2004a:11070**
Sondow, Jonathan Criteria for irrationality of Euler's constant. (English summary) **2004b:11102**
Zeilberger, Doron Computerized deconstruction. (English summary) **2004d:11060**
Zhou, Ping[2] *see* **Borwein, Peter B., 2004a:11069**

Items with secondary classifications in 11J72

Amou, Masaaki (*with* Väänänen, Keijo) An analogue of Shidlovskii's lemma for certain q-difference equations. (English summary) **2004h:39045**
Gutnik, L. A. On the asymptotic behavior of solutions of difference equation. **2004m:39009**
Nesterenko, Yu. V. Integral identities and the construction of simultaneous approximations to values of the Riemann zeta function. (Russian) **2004c:11150**
Väänänen, Keijo *see* **Amou, Masaaki, 2004h:39045**
Vasil′ev, D. V. Approximations of zero by linear forms in values of Riemann's zeta-function. (Russian. English and Russian summaries) **2004c:11153**
Zudilin, V. V. On third-order Apéry-type recursion for $\zeta(5)$. (Russian) **2004d:11061**
— Algebraic relations for multiple zeta values. (Russian. Russian summary) **2004k:11150**

11J81 Transcendence (general theory)

Adamczewski, Boris (*with* Cassaigne, Julien) On the transcendence of real numbers with a regular expansion. (English summary) **2004j:11076**
Adhikari, Sukumar Das Transcendental infinite sums and some related questions. (English summary) **2004a:11071**
André, Yves[1] Arithmetic Gevrey series and transcendence. A survey. (English and French summaries) **2004m:11115**
Berthé, V. Automatic sequences and transcendence. (*see* **2004c:37005**)
Cassaigne, Julien *see* **Adamczewski, Boris, 2004j:11076**
Duverney, Daniel (*with* Nishioka, Kumiko) An inductive method for proving the transcendence of certain series. **2004g:11058**
Nishioka, Kumiko *see* **Duverney, Daniel, 2004g:11058**
Saradha, N. (*with* Tijdeman, R.) On the transcendence of infinite sums of values of rational functions. (English summary) **2004b:11103**
Tijdeman, R. *see* **Saradha, N., 2004b:11103**
Welter, Michael Erratum: "On entire functions whose derivatives are integer-valued on geometric progressions" [Manuscripta Math. **103** (2000), no. 1, 63–74; MR 2001i:11090]. (English summary) **2004c:11127**
Yilmaz, Gülşen On the gap series and Liouville numbers. (English summary) **2004i:11075**

Items with secondary classifications in 11J81

Bombieri, Enrico Forty years of effective results in Diophantine theory. **2004c:11126**
Cohen, Paula B. (*with* Wüstholz, Gisbert) Application of the André-Oort conjecture to some questions in transcendence. (English summary) **2004c:11133**
Dodziuk, Józef (*with* Linnell, Peter A.; Mathai, Varghese; Schick, Thomas; Yates, Stuart) Approximating L^2-invariants and the Atiyah conjecture. (English summary) **2004g:58040**
Linnell, Peter A. *see* **Dodziuk, Józef et al., 2004g:58040**
Masser, D. W. Heights, transcendence, and linear independence on commutative group varieties. **2004k:11122**
Mathai, Varghese *see* **Dodziuk, Józef et al., 2004g:58040**
Nagata, Makoto Diophantine approximations related to rational values of G-functions. **2004e:11074**
Schick, Thomas *see* **Dodziuk, Józef et al., 2004g:58040**
Tanaka, Taka-aki Algebraic independence of Fibonacci reciprocal sums associated with Newton's method. **2004j:11078**
Ulanskiĭ, E. A. Identities for generalized polylogarithms. (Russian. Russian summary) **2004f:11065**
Urbański, Mariusz Diophantine analysis of conformal iterated function systems. (English summary) **2004j:37085**
Wüstholz, Gisbert *see* **Cohen, Paula B., 2004c:11133**
Yates, Stuart *see* **Dodziuk, Józef et al., 2004g:58040**

11J82 Measures of irrationality and of transcendence

Alniaçik, K. (*with* Avci, Y.; Bugeaud, Yann) On U_m-numbers with small transcendence measure. (English summary) **2004c:11128**
Amou, Masaaki (*with* Matala-aho, Tapani) Arithmetical properties of solutions of linear second order q-difference equations. (English summary) **2004c:11129**
Avci, Y. *see* **Alniaçik, K. et al., 2004c:11128**
Bugeaud, Yann *see* **Alniaçik, K. et al., 2004c:11128**
Elsner, Carsten On a linear transcendence measure for the solutions of a universal differential equation at algebraic points. (English summary) **2004b:11104**
Fischler, Stéphane Mesures d'irrationalité de $\zeta(2)$ et $\zeta(3)$. [Irrationality measures of $\zeta(2)$ and $\zeta(3)$] **2004c:11130**
Hančl, Jaroslav Two criteria for transcendental sequences. (English summary) **2004i:11076**
— Liouville sequences. (English summary) **2004i:11077**
Matala-aho, Tapani *see* **Amou, Masaaki, 2004c:11129**
Muñoz Garcia, E. (*with* Pérez-Marco, Ricardo) Diophantine conditions in small divisors and transcendental number theory. (English summary) **2004i:11078**
Pérez-Marco, Ricardo *see* **Muñoz Garcia, E., 2004i:11078**
Rivoal, Tanguy Séries hypergéométriques et irrationalité des valeurs de la fonction zêta de Riemann. (English and French summaries) [Hypergeometric series and irrationality of the values of the Riemann zeta function] **2004m:11116**
— (*with* Zudilin, V. V.) Diophantine properties of numbers related to Catalan's constant. **2004k:11119**
Zudilin, V. V. On third-order Apéry-type recursion for $\zeta(5)$. (Russian) **2004d:11061**
— Diophantine problems for q-zeta values. (Russian) **2004b:11105**
— *see also* **Rivoal, Tanguy, 2004k:11119**

Items with secondary classifications in 11J82

Arbour, Benoit (*with* Roy, Damien) A Gel′fond type criterion in degree two. **2004k:11113**
Borwein, Peter B. (*with* Zhou, Ping[2]) On the irrationality of a certain multivariate q series. (English summary) **2004a:11069**
Roy, Damien Approximation to real numbers by cubic algebraic integers. II. (English summary) **2004k:11110**
— (*with* Waldschmidt, Michel) Diophantine approximation by conjugate algebraic integers. (English summary) **2004m:11108**
— Approximation to real numbers by cubic algebraic integers. I. **2004i:11067**
— *see also* **Arbour, Benoit, 2004k:11113**
Tasoev, B. G. On the best rational approximations to the transcendental numbers $\psi(x)\cdot e^x$. (Russian. Russian summary) **2004k:11111**
— On the best rational approximations to the transcendental numbers $\psi(x)\cdot e^x$. II. (Russian. Russian summary) **2004k:11112**
Waldschmidt, Michel *see* **Roy, Damien, 2004m:11108**
Zhou, Ping[2] *see* **Borwein, Peter B., 2004a:11069**

11J83 Metric theory

Beresnevich, V. V. (*with* Bernik, V. I.; Dodson, M. M.) Regular systems, ubiquity and Diophantine approximation. **2004d:11062**
— (*with* Bernik, V. I.) Diophantine approximation on classical curves and Hausdorff dimension. **2004b:11106**
— (*with* Bernik, V. I.; Kleinbock, Dmitry; Margulis, Grigorii A.) Metric Diophantine approximation: the Khintchine-Groshev theorem for nondegenerate manifolds. (English summary) **2004b:11107**
Bernik, V. I. *see* **Beresnevich, V. V. et al., 2004b:11106**; **2004b:11107** *and* **2004d:11062**
Bugeaud, Yann A note on inhomogeneous Diophantine approximation. (English summary) **2004c:11131**
— Sets of exact approximation order by rational numbers. **2004i:11079**
Dodson, M. M. *see* **Beresnevich, V. V. et al., 2004d:11062**
Fuchs, Michael Invariance principles in metric Diophantine approximation. (English summary) **2004j:11077**
Kleinbock, Dmitry Extremal subspaces and their submanifolds. (English summary) **2004f:11073**
— *see also* **Beresnevich, V. V. et al., 2004b:11107**
Kristensen, Simon On well-approximable matrices over a field of formal series. (English summary) **2004i:11080**
Margulis, Grigorii A. *see* **Beresnevich, V. V. et al., 2004b:11107**
Silaeva, N. A. Simultaneous approximations of zero by values of normal functions in different metrics. (Russian. English and Russian summaries) **2004i:11081**

Items with secondary classifications in 11J83

Beresnevich, V. V. (*with* Bernik, V. I.; Kovalevskaya, È. I.) Metric theorems on the approximation of p-adic numbers by algebraic numbers of bounded degree. (Russian. English and Russian summaries) **2004j:11073**
— (*with* Kovalevskaya, È. I.) On Diophantine approximations of dependent quantities in the p-adic case. (Russian. Russian summary) **2004g:11057**
Bernik, V. I. *see* **Beresnevich, V. V. et al., 2004j:11073**
Inoue, Kae (*with* Nakada, Hitoshi) On metric Diophantine approximation in positive characteristic. **2004i:11068**
Kovalevskaya, È. I. p-adic variant of the convergence Khintchine theorem for curves over $\mathbb{Z}_p$. (English summary) **2004a:11066**
— Diophantine approximations of points of a class of space curves over $\mathbf{Z}_p$. (Russian. English and Russian summaries) **2004i:11069**
— *see also* **Beresnevich, V. V. et al., 2004g:11057** *and* **2004j:11073**
Margulis, Grigorii A. Diophantine approximation, lattices and flows on homogeneous spaces. **2004h:11031**
Nakada, Hitoshi *see* **Inoue, Kae, 2004i:11068**

11J85 Algebraic independence; Gel′fond's method

Hančl, Jaroslav A criterion for linear independence of special series. (English summary) **2004f:11074**
— Algebraically unrelated sequences. (English summary) **2004a:11072**
Kurosawa, Takeshi (*with* Shiokawa, Iekata) q-linear functions and algebraic independence. (English summary) **2004b:11108**
Laurent, Michel (*with* Poulakis, Dimitrios) On the global distance between two algebraic points on a curve. (English summary) **2004k:11120**
Nesterenko, Yu. V. On the algebraic independence of numbers. (English summary) **2004d:11063**
Poulakis, Dimitrios *see* **Laurent, Michel, 2004k:11120**
Shiokawa, Iekata *see* **Kurosawa, Takeshi, 2004b:11108**
Tanaka, Taka-aki Algebraic independence of Fibonacci reciprocal sums associated with Newton's method. **2004j:11078**

11J86 Linear forms in logarithms; Baker's method

David, Sinnou (*with* Hirata-Kohno, Noriko) Recent progress on linear forms in elliptic logarithms. **2004e:11076**
Gouillon, Nicolas Minorations explicites de formes linéaires de logarithmes. (French summary) [Explicit lower bounds for linear forms of logarithms] **2004e:11077**
Hirata-Kohno, Noriko *see* **David, Sinnou, 2004e:11076**
Nesterenko, Yu. V. Linear forms in logarithms of rational numbers. **2004i:11082**
Wüstholz, Gisbert One century of logarithmic forms. **2004c:11132**
Yu, Kunrui Report on p-adic logarithmic forms. **2004a:11073**

Items with secondary classifications in 11J86

Adhikari, Sukumar Das Transcendental infinite sums and some related questions. (English summary) **2004a:11071**
Bilu, Yuri F. Baker's method and modular curves. (English summary) **2004c:11102**
Bombieri, Enrico Forty years of effective results in Diophantine theory. **2004c:11126**
Bugeaud, Yann (*with* Dujella, Andrej) On a problem of Diophantus for higher powers. (English summary) **2004b:11035**
Cao, ZhenFu (*with* Dong, Xiaolei) An application of a lower bound for linear forms in two logarithms to the Terai-Jeśmanowicz conjecture. **2004g:11022**
Chen, Rong Ji *see* **Le, Mao Hua**
Dong, Xiaolei *see* **Cao, ZhenFu, 2004g:11022**
Dujella, Andrej (*with* Jadrijević, Borka) A family of quartic Thue inequalities. **2004m:11044**
— There are only finitely many Diophantine quintuples. (English summary) **2004m:11037**
— *see also* **Bugeaud, Yann, 2004b:11035**
Győry, Kálmán Solving Diophantine equations by Baker's theory. (English summary) **2004b:11039**
Heath-Brown, D. R. Heilbronn's exponential sum and transcendence theory. **2004d:11076**
Jacobson, Michael J., Jr. (*with* Pintér, Ákos; Walsh, P. Gary) A computational approach for solving $y^2 = 1^k + 2^k + \cdots + x^k$. (English summary) **2004c:11241**
Jadrijević, Borka *see* **Dujella, Andrej, 2004m:11044**
Le, Mao Hua (*with* Chen, Rong Ji) A conjecture of Erdős and Stewart concerning factorials. (Chinese. English and Chinese summaries)
Luca, Florian On the greatest common divisor of two Cullen numbers. **2004i:11001**
— On the Diophantine equation $p^{x_1} - p^{x_2} = q^{y_1} - q^{y_2}$. **2004h:11024**
Masser, D. W. Search bounds for Diophantine equations. **2004f:11027**
Pintér, Ákos *see* **Jacobson, Michael J., Jr. et al., 2004c:11241**
Walsh, P. Gary *see* **Jacobson, Michael J., Jr. et al., 2004c:11241**

11J89 Transcendence theory of elliptic and abelian functions

Kim, Daeyeoul (*with* Koo, Ja Kyung) Algebraic numbers, transcendental numbers and elliptic curves derived from infinite products. (English summary) **2004i:11083**
Koo, Ja Kyung *see* **Kim, Daeyeoul, 2004i:11083**
Masser, D. W. Sharp estimates for Weierstrass elliptic functions. **2004g:11059**

Items with secondary classifications in 11J89

David, Sinnou (*with* Hirata-Kohno, Noriko) Recent progress on linear forms in elliptic logarithms. **2004e:11076**
Elsner, Carsten On inhomogeneous Diophantine approximations with rational terms and applications to elliptic and trigonometric functions. (English summary) **2004a:11061**
Eymard, Pierre (*with* Lafon, Jean-Pierre) ★ The number π. **2004j:11152**
Hirata-Kohno, Noriko *see* **David, Sinnou, 2004e:11076**
Kawamura, Takashi The effective surjectivity of mod l Galois representations of 1- and 2-dimensional abelian varieties with trivial endomorphism ring. (English summary) **2004f:11076**
Lafon, Jean-Pierre *see* **Eymard, Pierre, 2004j:11152**
Masser, D. W. Heights, transcendence, and linear independence on commutative group varieties. **2004k:11122**
(Wilson, Stephen S.[3]) *see* **Eymard, Pierre, 2004j:11152**
Yoshida, Hiroyuki[1] ★ Absolute CM-periods. **2004j:11057**

11J91 Transcendence theory of other special functions

Archinard, Natália Exceptional sets of hypergeometric series. (English summary) **2004j:11079**
Cohen, Paula B. (*with* Wüstholz, Gisbert) Application of the André-Oort conjecture to some questions in transcendence. (English summary) **2004c:11133**
Desrousseaux, P. A. Valeurs exceptionnelles de fonctions transcendantes. (English and French summaries) [Exceptional values of transcendental functions] (*see* **2004c:11004**)
Nagata, Makoto On G-functions and Padé approximations. (English summary) **2004e:11078**
Wüstholz, Gisbert *see* **Cohen, Paula B., 2004c:11133**
Zudilin, V. V. On the functional transcendence of q-zeta values. (Russian) **2004f:11075**

Items with secondary classifications in 11J91

Colmez, Pierre Arithmétique de la fonction zêta. [The arithmetic of zeta functions] (*see* **2004j:11097**)
Compoint, E. Une application arithmétique de la théorie de Galois différentielle. [An arithmetical application of differential Galois theory] **2004a:12008**
Edixhoven, Bas (*with* Yafaev, Andrei) Subvarieties of Shimura varieties. **2004c:11103**
Fischler, Stéphane (*with* Rivoal, Tanguy) Approximants de Padé et séries hypergéométriques équilibrées. (English and French summaries) [Padé approximants and balanced hypergeometric series] **2004m:11114**
Kohnen, Winfried Transcendence of zeros of Eisenstein series and other modular functions. **2004c:11051**
Masser, D. W. Heights, transcendence, and linear independence on commutative group varieties. **2004k:11122**
Rivoal, Tanguy (*with* Zudilin, V. V.) Diophantine properties of numbers related to Catalan's constant. **2004k:11119**
— *see also* **Fischler, Stéphane, 2004m:11114**
Yafaev, Andrei *see* **Edixhoven, Bas, 2004c:11103**
Zudilin, V. V. *see* **Rivoal, Tanguy, 2004k:11119**

11J93 Transcendence theory of Drinfel'd and t-modules

Dion, Sophie Un théorème de transcendance en caractéristique finie. (English and French summaries) [A transcendence theorem in finite characteristic] **2004k:11121**

11J95 Results involving abelian varieties

Ably, Mohammed (*with* Gaudron, Éric) Approximation diophantienne sur les courbes elliptiques à multiplication complexe. (English and French summaries) [Diophantine approximation on elliptic curves with complex multiplication] **2004j:11080**
Evertse, Jan-Hendrik Points on subvarieties of tori. **2004c:11134**
Gaudron, Éric *see* **Ably, Mohammed, 2004j:11080**
Kawamura, Takashi The effective surjectivity of mod l Galois representations of 1- and 2-dimensional abelian varieties with trivial endomorphism ring. (English summary) **2004f:11076**
Masser, D. W. Heights, transcendence, and linear independence on commutative group varieties. **2004k:11122**
Rémond, Gaël Approximation diophantienne sur les variétés semi-abéliennes. (English and French summaries) [Diophantine approximation on semi-abelian varieties] **2004d:11064**

Items with secondary classifications in 11J95

Amoroso, Francesco (*with* David, Sinnou) Minoration de la hauteur normalisée dans un tore. (English and French summaries) [Lower bound for the normalized height in a torus] **2004m:11101**
Chambert-Loir, Antoine Théorèmes d'algébricité en géométrie diophantienne (d'après J.-B. Bost, Y. André, D. & G. Chudnovsky). (French summary) [Algebraicity theorems in Diophantine geometry (following J.-B. Bost, Y. André, D. and G. Chudnovsky)] **2004f:11062**
David, Sinnou (*with* Philippon, Patrice) Minorations des hauteurs normalisées des sous-variétés de variétés abeliennes. II. (English and French summaries) [Lower bounds for the normalized heights of subvarieties of abelian varieties. II] **2004a:11055**
— *see also* **Amoroso, Francesco, 2004m:11101**
Faltings, Gerd A new application of Diophantine approximations. **2004b:11100**
Ferretti, Roberto G. Diophantine approximations and toric deformations. (English summary) **2004d:11057**
Philippon, Patrice *see* **David, Sinnou, 2004a:11055**
Rémond, Gaël (*with* Viada, Evelina) Problème de Mordell-Lang modulo certaines sous-variétés abéliennes. [Mordell-Lang problem modulo certain abelian subvarieties] **2004h:11054**
Viada, Evelina *see* **Rémond, Gaël, 2004h:11054**
Wolfart, Jürgen Regular dessins, endomorphisms of Jacobians, and transcendence. **2004h:11056**

11J97 Analogues of methods in Nevanlinna theory (work of Vojta et al.)

Noguchi, Junjiro Some results in view of Nevanlinna theory. (English summary) **2004a:11074**
Wang, Julie Tzu-Yueh An effective Schmidt's subspace theorem over function fields. (English summary) **2004m:11117**

Items with secondary classifications in 11J97

Kobayashi, Ryoichi Toward Nevanlinna theory as a geometric model for Diophantine approximation [translation of Sūgaku **48** (1996), no. 2, 113–127; MR 98k:32036]. (English summary) (*see* **2004a:00023**)
Muñoz Garcia, E. (*with* Pérez-Marco, Ricardo) Diophantine conditions in small divisors and transcendental number theory. (English summary) **2004i:11078**
Pérez-Marco, Ricardo *see* **Muñoz Garcia, E., 2004i:11078**

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms

11K06 General theory of distribution modulo 1 [see also 11J71]

Dekking, F. Michel (*with* van der Wal, Peter) Uniform distribution modulo one and binary search trees. (English and French summaries) **2004m:11118**
Hutson, H. L. On the distribution of $\log(p)$. (English summary) **2004i:11084**
Marklof, Jens Almost modular functions and the distribution of n^2x modulo one. **2004g:11060**
Nair, Radhakrishnan On strong uniform distribution. III. (English summary) **2004k:11123**
Pillichshammer, Friedrich Improved upper bounds for the star discrepancy of digital nets in dimension 3. **2004b:11109**
van der Wal, Peter *see* **Dekking, F. Michel, 2004m:11118**

Items with secondary classifications in 11K06

Allakov, I. On the distribution of fractional parts of a sequence $\{\alpha p^k\}$ with prime arguments in an arithmetic progression. (Russian) **2004m:11119**
Cobeli, Cristian (*with* Vâjâitu, Marian; Zaharescu, Alexandru) Distribution of gaps between the inverses mod q. (English summary) **2004a:11105**
Grekos, Georges *see* **Strauch, Oto et al., 2004j:11081**
Grozdanov, V. S. (*with* Nikolova, E.; Stoilova, S. S.) Generalized b-adic diaphony. (English summary) **2004c:11138**
— (*with* Stoilova, S. S.) The general diaphony. (English summary)
Jia, Chao Hua On the distribution of αp modulo one. (English summary) **2004b:11114**

Murty, Maruti Ram (*with* Srinivas, Kotyada) On the uniform distribution of certain sequences. (English summary) **2004j:11075**
Nair, Radhakrishnan On a problem of R. C. Baker. **2004g:11062**
— On uniformly distributed sequences of integers and Poincaré recurrence. III. (English summary) **2004h:11065**
Nikolova, E. *see* **Grozdanov, V. S. et al., 2004c:11138**
Paštéka, Milan *see* **Strauch, Oto et al., 2004j:11081**
Srinivas, Kotyada *see* **Murty, Maruti Ram, 2004j:11075**
Stoilova, S. S. *see* **Grozdanov, V. S. et al., 2004c:11138**
Strauch, Oto (*with* Paštéka, Milan; Grekos, Georges) Kloosterman's uniformly distributed sequence. (English summary) **2004j:11081**
Vâjâitu, Marian (*with* Zaharescu, Alexandru) Sequences of values of power series over p-adic fields. (English summary) **2004i:11089**
— *see also* **Cobeli, Cristian et al., 2004a:11105**
Wu, Da A deviation estimate of the alignment distribution concerning the slowly extended exponential function. (Chinese. English and Chinese summaries) **2004a:11076**
Zaharescu, Alexandru Correlation of fractional parts of $n^2\alpha$. (English summary) **2004a:11065**
— *see also* **Cobeli, Cristian et al., 2004a:11105** *and* **Vâjâitu, Marian, 2004i:11089**

11K16 Normal numbers, radix expansions, etc. [see also 11A63]

Bailey, David H. (*with* Crandall, Richard E.) Random generators and normal numbers. (English summary) **2004c:11135**
Bassino, Frédérique (*with* Prodinger, Helmut) (q,δ)-numeration systems with missing digits. (English summary) **2004k:11124**
Crandall, Richard E. *see* **Bailey, David H., 2004c:11135**
Frougny, Christiane (*with* Gazeau, Jean Pierre; Krejcar, Rudolf) Additive and multiplicative properties of point sets based on beta-integers. (English and French summaries) **2004h:11064**
Gazeau, Jean Pierre *see* **Frougny, Christiane et al., 2004h:11064**
Krejcar, Rudolf *see* **Frougny, Christiane et al., 2004h:11064**
Lamberger, Mario (*with* Thuswaldner, Jörg M.) Distribution properties of digital expansions arising from linear recurrences. (English summary) **2004a:11075**
Nikitin, V. G. Properties of weakly normal numbers. (Russian) **2004f:11077**
Olsen, Lars Ole Rønnow Distribution of digits in integers: Besicovitch-Eggleston subsets of $\mathbb{N}$. (English summary) **2004c:11136**
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Thuswaldner, Jörg M. *see* **Lamberger, Mario, 2004a:11075**

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Cooper, Curtis Bounds for the number of large digits in the positive integers not exceeding n. (English summary) **2004d:11005**
Dajani, Karma (*with* Kraaikamp, Cor) Random β-expansions. (English summary) **2004a:37010**
Kraaikamp, Cor *see* **Dajani, Karma, 2004a:37010**
Olsen, Lars Ole Rønnow Extremely non-normal continued fractions. **2004f:11080**

11K31 Special sequences

Baxa, Christoph Some remarks on the distribution of a sequence connected with $\zeta(\frac{1}{2})$. (English summary) **2004g:11061**
— A note on the distribution of the sequence $(n\alpha)$ with transcendental α. (English summary) **2004b:11111**
Garaev, M. Z. A note on the least quadratic non-residue of the integer-sequences. (English summary) **2004i:11087**
Grekos, Georges *see* **Strauch, Oto et al., 2004j:11081**
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Kolomeĭkina, E. V. (*with* Moshchevitin, N. G.) Nonrecurrence in the mean of sums along the Kronecker sequence. (Russian) **2004f:11078**
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Nair, Radhakrishnan On a problem of R. C. Baker. **2004g:11062**
— On uniformly distributed sequences of integers and Poincaré recurrence. III. (English summary) **2004h:11065**
Paštéka, Milan *see* **Strauch, Oto et al., 2004j:11081**
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Cassaigne, Julien (*with* Mauduit, Christian; Sárközy, András) On finite pseudorandom binary sequences. VII. The measures of pseudorandomness. **2004c:11139**
Chubarikov, V. N. *see* **Boyarinov, R. N. et al., 2004f:11084**
Cobeli, Cristian (*with* Iordache, Adrian; Zaharescu, Alexandru) The relative size of consecutive odd denominators in Farey series. (English summary) **2004j:11018**
— (*with* Gonek, S. M.; Zaharescu, Alexandru) The distribution of patterns of inverses modulo a prime. (English summary) **2004i:11117**
Gonek, S. M. *see* **Cobeli, Cristian et al., 2004i:11117**
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Mauduit, Christian *see* **Cassaigne, Julien et al., 2004c:11139**
Ngongo, I. S. *see* **Boyarinov, R. N. et al., 2004f:11084**
Sárközy, András *see* **Cassaigne, Julien et al., 2004c:11139**
Zaharescu, Alexandru *see* **Cobeli, Cristian et al., 2004i:11117** *and* **2004j:11018**

11K36 Well-distributed sequences and other variations

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Hlawka, Edmund Pythagoräische Tripel: Gleichverteilung und geometrische Anwendungen. (English summary) [Pythagorean triples: uniform distribution and geometrical application] **2004m:11038**
Vâjâitu, Marian (*with* Zaharescu, Alexandru) Exponential sums and their role in number theory. II. **2004e:11084**
Zaharescu, Alexandru *see* **Vâjâitu, Marian, 2004e:11084**

11K38 Irregularities of distribution, discrepancy [see also 11Nxx]

Allakov, I. On the distribution of fractional parts of a sequence $\{\alpha p^k\}$ with prime arguments in an arithmetic progression. (Russian) **2004m:11119**
Brandolini, L. (*with* Iosevich, Alexander; Travaglini, Giancarlo) Planar convex bodies, Fourier transform, lattice points, and irregularities of distribution. (English summary) **2004i:11088**
Grozdanov, V. S. (*with* Nikolova, E.; Stoilova, S. S.) Generalized b-adic diaphony. (English summary) **2004c:11138**
— (*with* Stoilova, S. S.) On an inequality between the dyadic diaphony and the star-discrepancy. (English summary) **2004m:11120**
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Heinrich, Stefan Some open problems concerning the star-discrepancy. (English summary) **2004b:11112**
Hlawka, Edmund Korrekturen und Ergänzungen zu "Gleichverteilung und die willkürlichen Funktionen von Poincaré. Teil II". (German) [Corrections and supplements to: "Uniform distribution and the arbitrary functions of Poincaré. II" [Österreich. Akad. Wiss. Math.-Natur. Kl. Sitzungsber. II **208** (1999), 31–78 (2000); MR 2003h:11087]]
Iosevich, Alexander *see* **Brandolini, L. et al., 2004i:11088**
Kamarul Haili, H. (*with* Nair, Radhakrishnan) The discrepancy of some real sequences. (English summary) **2004j:11082**
Nair, Radhakrishnan *see* **Kamarul Haili, H., 2004j:11082**
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Pillichshammer, Friedrich Weighted discrepancy of Faure-Niederreiter nets for a certain sequence of weights. (English summary) **2004f:11079**
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— (*with* Lu, Xuan; Tang, Yu; Yin, Jian Xing) Constructions of uniform designs by using resolvable packings and coverings. (English summary) **2004k:05057**
Grozdanov, V. S. (*with* Stoilova, S. S.) The inequality of Erdős-Turan-Koksma. Walsh functions over finite groups. (English summary) **2004j:11084**
Larcher, Gerhard (*with* Pillichshammer, Friedrich; Scheicher, Klaus) Weighted discrepancy and high-dimensional numerical integration. (English summary) **2004g:65006**
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Levin, Mordechay B. (*with* Merzbach, Ely) Central limit theorems for the ergodic adding machine. (English summary) **2004c:60060**
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Pillichshammer, Friedrich Improved upper bounds for the star discrepancy of digital nets in dimension 3. **2004b:11109**
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11K41 Continuous, p-adic and abstract analogues

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Grabner, Peter J. (*with* Knopfmacher, Arnold) Arithmetic and metric properties of p-adic Engel series expansions. (English summary) **2004i:11091**

Knopfmacher, Arnold *see* **Grabner, Peter J., 2004i:11091**

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Leobacher, Gunther (*with* Pillichshammer, Friedrich) Bounds for the weighted L^p discrepancy and tractability of integration. (English summary) **2004f:65030**

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Richard, Christoph Dense Dirac combs in Euclidean space with pure point diffraction. (English summary) **2004g:52034**

11K45 Pseudo-random numbers; Monte Carlo methods

Ahlswede, Rudolf (*with* Khachatrian, Levon H.; Mauduit, Christian; Sárközy, András) A complexity measure for families of binary sequences. (English summary) **2004j:11085**

Beelen, Peter (*with* Doumen, Jeroen) Pseudorandom sequences from elliptic curves. (English summary) **2004d:11066**

Bérczi, Gergely On finite pseudorandom sequences of k symbols. (English summary) **2004j:11086**

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Flahive, Mary E. The quality parameter for digital (t, m, s)-nets. (English summary) **2004d:11067**

Goubin, Louis (*with* Mauduit, Christian; Sárközy, András) Construction of large families of pseudorandom binary sequences. (English summary) **2004m:11121**

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Balazs, Ileana A method for increasing the speed of certain CSPRBG for one-time-pad ciphers. (English summary)

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Dorfer, Gerhard (*with* Winterhof, Arne) Lattice structure and linear complexity profile of nonlinear pseudorandom number generators. (English summary) **2004d:65015**

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Kalai, Adam Generating random factored numbers, easily. **2004g:11119**

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Tang, Hui-Chin Symmetry properties of multiple recursive random number generators in full period and spectral test. (English summary) **2004b:65005**

Tarakanov, V. E. On an application of the Gauss lemma in the study of pseudorandom sequences based on quadratic residues. (Russian. Russian summary) **2004g:11002**

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11K50 Metric theory of continued fractions [see also 11A55, 11J70]

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— On the distribution of the continued fraction approximations: optimal rates. (English summary) **2004i:11090**

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Nakada, Hitoshi (*with* Natsui, Rie) Some metric properties of α-continued fractions. (English summary) **2004g:11063**

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Khanin, Konstantin *see* **Hardcastle, D. M., 2004a:11067**
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Moussa, Pierre *see* **Marmi, Stefano et al., 2004i:37003**
Nair, Radhakrishnan On strong uniform distribution. III. (English summary) **2004k:11123**
Nakada, Hitoshi (*with* Natsui, Rie) On the metrical theory of continued fraction mixing fibred systems and its application to Jacobi-Perron algorithm. (English summary) **2004i:37008**
— (*with* Natsui, Rie) Some strong mixing properties of a sequence of random variables arising from α-continued fractions. (English summary) **2004k:37008**
Natsui, Rie *see* **Nakada, Hitoshi, 2004i:37008** *and* **2004k:37008**
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Vallée, Brigitte Dynamical analysis of a class of Euclidean algorithms. (English summary) **2004e:11144**
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11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [see also 11N99, 28Dxx]

Bourgain, Jean On the Erdős-Volkmann and Katz-Tao ring conjectures. **2004d:11070**
Galambos, János (*with* Kátai, Imre; Lee, Min-Young) Metric properties of alternating Oppenheim expansions. **2004c:11141**
Grabner, Peter J. (*with* Knopfmacher, Arnold) Arithmetic and metric properties of p-adic Engel series expansions. (English summary) **2004i:11091**
Hartono, Yusuf (*with* Kraaikamp, Cor) On continued fractions with odd partial quotients. (English summary) **2004e:11082**
Kátai, Imre *see* **Galambos, János et al., 2004c:11141**
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Kristensen, Simon On well-approximable matrices over a field of formal series. (English summary) **2004i:11080**
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Neunhäuserer, J. Number theoretical peculiarities in the dimension theory of dynamical systems. (English summary) **2004d:37035**
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11K60 Diophantine approximation [see also 11Jxx]

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Harman, Glyn Simultaneous Diophantine approximation and asymptotic formulae on manifolds. **2004c:11143**
Jia, Chao Hua On the distribution of αp modulo one. (English summary) **2004b:11114**
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Luz, Richard Urzúa The first cohomology of affine $\mathbb{Z}^p$-actions on tori and applications to rigidity. (English summary) **2004f:37033**
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Naito, Koichiro Recurrent dimensions of quasi-periodic orbits with irrational frequencies given by quasi Liouville numbers. (English summary) **2004d:37017**
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Tong, Jingcheng Symmetric and asymmetric Diophantine approximation. (English summary) **2004m:11113**

11K65 Arithmetic functions [see also 11Nxx]

Arratia, Richard On the amount of dependence in the prime factorization of a uniform random integer. (English summary) **2004a:11080**
Daboussi, Hédi (*with* Sárközy, András) On the correlation of the truncated Liouville function. **2004e:11083**
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Kátai, Imre (*with* Subbarao, M. V.) Distribution of additive and q-additive functions under some conditions. (English summary) **2004k:11130**
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Luca, Florian (*with* Stănică, Pantelimon) On the prime power factorization of $n!$ (English summary) **2004f:11082**
Manstavičius, E. Functional limit theorem for sequences of mappings on the symmetric group. (English summary) **2004b:11116**
— Functional limit theorems in probabilistic number theory. (English summary) **2004b:11115**
Sárközy, András *see* **Daboussi, Hédi, 2004e:11083**
Sburlati, Giovanni Random variables related to distributions of sums modulo an integer. (English summary) **2004g:11065**
Šiaulys, J. On the separation of distributions of additive functions. (English summary) **2004b:11117**
Stănică, Pantelimon *see* **Luca, Florian, 2004f:11082**
Subbarao, M. V. *see* **Kátai, Imre, 2004k:11130**

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Daboussi, Hédi (*with* Sárközy, András) On pseudorandom properties of multiplicative functions. (English summary) **2004a:11078**
De Koninck, Jean-Marie (*with* Doyon, Nicolas) À propos de l'indice de composition des nombres. (English summary) [On the index of composition of numbers] **2004e:11104**
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Elliott, P. D. T. A. Product representations by rationals. (English summary) **2004f:11103**
— The least prime primitive root and Linnik's theorem. **2004e:11108**
Kátai, Imre On q-additive and q-multiplicative functions. **2004g:11005**
Mauclaire, Jean-Loup Some results on additive arithmetical functions with values in a group. (English summary) **2004c:11176**
Misevičius, Gintautas On large deviations in the theorem of Fortet-Kac for unbounded functions. (English summary) **2004a:60066**
Sárközy, András *see* **Daboussi, Hédi, 2004a:11078**
Song, Fu Gao A dual probability sieve method and distribution of primes (a revised version)—on the Goldbach conjecture, the 8-th problem of Hilbert and the Yu Xin He conjecture. (Chinese. English and Chinese summaries)
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Zhang, Wen-Bin[1] Mean-value theorems for multiplicative functions on additive arithmetic semigroups via Halász's method. (English summary) **2004a:11101**

11K70 Harmonic analysis and almost periodicity

Schlage-Puchta, Jan-Christoph An additive property of almost periodic sets. (English summary) **2004a:11082**
Spilker, J. Almost-periodicity of g-additive and g-multiplicative functions. (English summary) **2004b:11118**

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Kaczorowski, Jerzy (*with* Ramaré, Olivier) Almost periodicity of some error terms in prime number theory. **2004g:11083**
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Zhang, Chuanyi ★ Almost periodic type functions and ergodicity. **2004k:34087**

11K99 None of the above, but in this section

Zaharescu, Alexandru Spacing distribution along curves. (English summary) **2004c:11144**

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Bruin, Henk Minimal Cantor systems and unimodal maps. (English summary) **2004c:37020**
Götze, Friedrich (*with* Prokhorov, Yuriĭ Vasil′evich; Ul′yanov, Vladimir Vasil′evich) The mean-value theorem of I. M. Vinogradov for random variables. (Russian. Russian summary) **2004f:60071**
Ignatavičiūtė, J. Joint discrete value distribution of Lerch zeta-functions. (English summary) **2004a:11091**
Kačėnas, A. (*with* Šiaučiūnas, D.) On the periodic zeta-function. III. (English summary) **2004c:11164**
Kulikova, A. A. An estimate for the rate of convergence of probability distributions to the uniform distribution. (Russian. Russian summary) **2004h:60008**
Laurinčikas, Antanas Application of probabilistic methods in the theory of the Riemann zeta-function. **2004d:11081**
Prokhorov, Yuriĭ Vasil′evich *see* **Götze, Friedrich et al., 2004f:60071**
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11Lxx Exponential sums and character sums {For finite fields, see 11Txx.}

11L03 Trigonometric and exponential sums, general

Alzer, Horst (*with* Koumandos, Stamatis) On a trigonometric sum of Vinogradov. (English summary) **2004k:11131**
Blache, Régis Exponential sums over lifts of points. (English summary) **2004m:11123**
Jung, Soon-Mo On some congruence with application to exponential sums. (English summary) **2004m:11124**
Karatsuba, A. A. On zeros of trigonometric sums. (Russian)
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Szenes, András Residue theorem for rational trigonometric sums and Verlinde's formula. (English summary) **2004c:11145**
Vâjâitu, Marian (*with* Zaharescu, Alexandru) Exponential sums and their role in number theory. II. **2004e:11084**
Zaharescu, Alexandru *see* **Vâjâitu, Marian, 2004e:11084**
Zhu, Hui June p-adic variation of L functions of one variable exponential sums. I. (English summary) **2004b:11119**
Zhu, Weiyi On the general Gauss sums and its fourth power mean. (English summary) **2004g:11066**
Zuniga-Galindo, W. A. Exponential sums along p-adic curves. (English summary) **2004a:11083**

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Cochrane, Todd (*with* Pinner, Christopher; Rosenhouse, Jason) Sparse polynomial exponential sums. **2004a:11085**
Evans, Ronald (*with* Minei, Marvin; Yee, Bennet) Incomplete higher-order Gauss sums. (English summary) **2004e:11086**
Fukuhara, Shinji New trigonometric identities and generalized Dedekind sums. (English summary) **2004a:11033**
Green, D. H. (*with* Green, Peter Richard) Polyphase power-residue sequences. (English summary) **2004e:94028**
Green, Peter Richard *see* **Green, D. H., 2004e:94028**
Kolesnik, Grigori Estimation of some exponential sums containing the fractional part function and some other "non-standard" exponential sums. **2004c:11148**
Lichtin, Ben On a question of Heath-Brown: good estimates on average for higher degree Kloosterman sums. (English summary) **2004f:11026**
Minei, Marvin *see* **Evans, Ronald et al., 2004e:11086**
Mozer, Yan On the law of fluctuation of the principal trigonometric sum over prime numbers. (Russian) **2004e:11092**
Pinner, Christopher *see* **Cochrane, Todd et al., 2004a:11085**
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Schlage-Puchta, Jan-Christoph An additive property of almost periodic sets. (English summary) **2004a:11082**
Scholten, Jasper (*with* Zhu, Hui June) Slope estimates of Artin-Schreier curves. (English summary) **2004f:11141**
Yee, Bennet *see* **Evans, Ronald et al., 2004e:11086**
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11L05 Gauss and Kloosterman sums; generalizations

Baker, Roger C. ★ Kloosterman sums and Maass forms. Vol. I. **2004i:11093**
Bruggeman, R. W. (*with* Miatello, R. J.; Pacharoni, I.) Sums of Kloosterman sums for real quadratic number fields. (English summary) **2004e:11085**
Chae, Hi-joon (*with* Kim, Dae San) L functions of some exponential sums of finite classical groups. (English summary) **2004k:11132**
Cochrane, Todd (*with* Zheng, Zhi Yong) A survey on pure and mixed exponential sums modulo prime powers. **2004b:11120**
Danas, George On some Kloosterman sums. (English summary) **2004c:11146**
Dong, Zhong Min On the mean value of cubic Gauss sums. (Chinese. English and Chinese summaries) **2004d:11071**
Evans, Ronald (*with* Minei, Marvin; Yee, Bennet) Incomplete higher-order Gauss sums. (English summary) **2004e:11086**
Fouvry, Etienne (*with* Michel, Philippe Gabriel) Sommes de modules de sommes d'exponentielles. (English summary) [Sums of moduli of exponential sums] **2004d:11072**
Gurak, S. Gauss and Eisenstein sums of order twelve. (English summary) **2004e:11087**
Kim, Dae San *see* **Chae, Hi-joon, 2004k:11132**
Konyagin, Sergei Estimates for trigonometric sums over subgroups and for Gauss sums. (Russian) **2004d:11073**
Liu, Hong Yan (*with* Zhang, Wen Peng) On the general k-th Kloosterman sums and its fourth power mean. (English summary) **2004k:11133**
— (*with* Wang, Xiao Ying) The fourth power mean of the quadratic Kloosterman sums. (Chinese. English and Chinese summaries)
Liu, Huaning *see* **Zhang, Wen Peng, 2004i:11094**
Meijer, Peter B. L. (*with* van der Vlugt, M.) The evaluation of Gauss sums for characters of 2-power order. (English summary) **2004b:11121**
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Minei, Marvin *see* **Evans, Ronald et al., 2004e:11086**
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Pacharoni, I. *see* **Bruggeman, R. W. et al., 2004e:11085**
Paris, R. B. On the asymptotic connection between two exponential sums. (English summary) **2004d:11074**
Patterson, S. J. The asymptotic distribution of exponential sums. I. (English summary) **2004m:11125**
Proskurin, N. V. On Kloosterman sums with characters. (Russian. Russian summary) **2004k:11134**
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Yi, Yuan (*with* Zhang, Wen Peng) On the distribution of primitive roots modulo a prime. (English summary) **2004a:11084**
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— (*with* Liu, Huaning) A note on the Cochrane sum and its hybrid mean value formula. (English summary) **2004i:11094**
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Banks, William D. (*with* Harcharras, Asma; Shparlinski, Igor E.) Short Kloosterman sums for polynomials over finite fields. (English summary) **2004f:11140**
Cherednik, Ivan (*with* Ostrik, Viktor) From double Hecke algebra to Fourier transform. (English summary) **2004f:20011**
Cobeli, Cristian (*with* Gonek, S. M.; Zaharescu, Alexandru) The distribution of patterns of inverses modulo a prime. (English summary) **2004i:11117**
Gao, Li² The second-power mean of Dirichlet L-functions with the weight of general Kloostermann sums. (Chinese. English and Chinese summaries)
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Gonek, S. M. *see* **Cobeli, Cristian et al., 2004i:11117**
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Jacquet, Hervé Facteurs de transfert pour les intégrales de Kloosterman. (English and French summaries) [Transfer factors for Kloosterman integrals] **2004e:11052**
Kazhdan, David A. (*with* Polishchuk, Alexander) Fourier transform over finite field and identities between Gauss sums. (English summary) **2004d:11120**
Khan, Mizan R. (*with* Shparlinski, Igor E.) On the maximal difference between an element and its inverse modulo n. (English summary) **2004k:11006**
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Shin, Dong-Joon (*with* Kumar, P. Vijay; Helleseth, Tor) 3-designs from the Z_4-Goethals codes via a new Kloosterman sum identity. (English summary) **2004d:94044**
Shparlinski, Igor E. *see* **Banks, William D. et al., 2004f:11140** *and* **Khan, Mizan R., 2004k:11006**
Vâjâitu, Marian (*with* Zaharescu, Alexandru) Exponential sums and their role in number theory. II. **2004e:11084**
Voloch, José Felipe (*with* Walker, Judy L.) Homogeneous weights and exponential sums. (English summary) **2004d:11119**
Walker, Judy L. *see* **Voloch, José Felipe, 2004d:11119**
Yang, Jin (*with* Zheng, Zhi Yong) Bounds for certain character sums. (English summary) **2004f:11088**
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Zhang, Wen Peng A hybrid mean value of L-functions and general quadratic Gauss sums. (English summary) **2004c:11154**
— A sum analogous to Dedekind sums and its hybrid mean value formula. **2004a:11034**
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Zuniga-Galindo, W. A. Local zeta functions and Newton polyhedra. (English summary) **2004h:11098**

11L07 Estimates on exponential sums

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Bailly, Catherine (*with* Cabral, M. de J.) L'octogone régulier et la signature des formes quadratiques entières non singulières. (English and French summaries) [The regular octagon and the signature of nonsingular integral quadratic forms] **2004m:11126**

Banks, William D. (*with* Conflitti, Alessandro; Friedlander, John B.; Shparlinski, Igor E.) Exponential sums over Mersenne numbers. (English summary) **2004j:11091**

Bourgain, Jean (*with* Konyagin, Sergei) Estimates for the number of sums and products and for exponential sums over subgroups in fields of prime order. (English and French summaries) **2004g:11067**

Boyarinov, R. N. (*with* Ngongo, I. S.; Chubarikov, V. N.) On new metric theorems in the method of A. G. Postnikov. (Russian. Russian summary) **2004f:11084**

Cabral, M. de J. *see* **Bailly, Catherine**, **2004m:11126**

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Cochrane, Todd (*with* Pinner, Christopher; Rosenhouse, Jason) Sparse polynomial exponential sums. **2004a:11085**

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Indlekofer, Karl-Heinz (*with* Kátai, Imre) A note on a theorem of Daboussi. (English summary) **2004i:11095**

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Sperber, Steven *see* **Adolphson, Alan**, **2004k:11135**

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Yi, Yuan (*with* Zhang, Wen Peng) On generalization of Lehmer D H problem. (English and Chinese summaries) [On a generalization of a D. H. Lehmer problem] **2004b:11123**

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Zhang, Wen Peng (*with* Xu, Zong Ben; Yi, Yuan) A problem of D. H. Lehmer and its mean square value formula. (English summary) **2004m:11128**

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Evans, Ronald (*with* Minei, Marvin; Yee, Bennet) Incomplete higher-order Gauss sums. (English summary) **2004e:11086**

Fouvry, Etienne (*with* Michel, Philippe Gabriel) Sommes de modules de sommes d'exponentielles. (English summary) [Sums of moduli of exponential sums] **2004d:11072**

Garaev, M. Z. A note on the least quadratic non-residue of the integer-sequences. (English summary) **2004i:11087**

Goubin, Louis (*with* Mauduit, Christian; Sárközy, András) Construction of large families of pseudorandom binary sequences. (English summary) **2004m:11121**

Harcos, Gergely An additive problem in the Fourier coefficients of cusp forms. (English summary) **2004d:11029**

Karatsuba, A. A. The omega theorem for zeta sums. (Russian. Russian summary) **2004j:11096**

Konyagin, Sergei Estimates for trigonometric sums over subgroups and for Gauss sums. (Russian) **2004d:11073**

Kuba, Gerald On rounding error sums related to the circle problem. (English summary) **2004f:11108**

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Lamberger, Mario (*with* Thuswaldner, Jörg M.) Distribution properties of digital expansions arising from linear recurrences. (English summary) **2004a:11075**

Lichtin, Ben On a question of Heath-Brown: good estimates on average for higher degree Kloosterman sums. (English summary) **2004f:11026**

Liu, Chun Lei[1] *see* **Cochrane, Todd et al.**, **2004i:11096**

Mauduit, Christian *see* **Goubin, Louis et al.**, **2004m:11121**

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Peneva, T. P. An additive problem with Piatetski-Shapiro primes and almost-primes. (English summary) **2004j:11109**

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Ruzsa, Imre Z. *see* **Pintz, J.**, **2004c:11185**

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Shparlinski, Igor E. Prime divisors of sparse integers. (English summary) **2004g:11087**

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Yi, Yuan (*with* Zhang, Wen Peng) On the distribution of primitive roots modulo a prime. (English summary) **2004a:11084**

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11L26 Sums over arbitrary intervals

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11L40 Estimates on character sums

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11Mxx Zeta and L-functions: analytic theory

11M06 $\zeta(s)$ and $L(s,\chi)$

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Gao, Li[2] On the even power mean of the reciprocal of Dirichlet L-functions. (Chinese. English and Chinese summaries) **2004j:11093**
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Pitman, Jim (*with* Yor, Marc) Infinitely divisible laws associated with hyperbolic functions. (English summary) **2004c:11151**
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11M20 Real zeros of $L(s,\chi)$; results on $L(1,\chi)$

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11M26 Nonreal zeros of $\zeta(s)$ and $L(s,\chi)$; Riemann and other hypotheses

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Garaev, M. Z. On vertical zeros of $\Re\zeta(s)$ and $\Im\zeta(s)$. **2004c:11156**
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11N45 Asymptotic results on counting functions for algebraic and topological structures

Alkan, Emre On the enumeration of finite abelian and solvable groups. (English summary) **2004k:11156**
Warlimont, Richard On the zetafunction of an arithmetical semigroup. (English summary) **2004m:11152**
Zhang, Wen-Bin[1] Mean-value theorems for multiplicative functions on additive arithmetic semigroups via Halász's method. (English summary) **2004a:11101**

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Cohen, Henri (*with* Diaz y Diaz, Francisco; Olivier, Michel Jacques) On the density of discriminants of cyclic extensions of prime degree. (English summary) **2004a:11115**
Diaz y Diaz, Francisco *see* **Cohen, Henri et al., 2004a:11115**
Kuba, Gerald On the distribution of squares of integral Cayley numbers. **2004f:11109**
Languasco, Alessandro (*with* Menegazzo, Federico; Morigi, M.) On the composition length of finite primitive linear groups. (English summary) **2004a:20051**
Menegazzo, Federico *see* **Languasco, Alessandro et al., 2004a:20051**
Morigi, M. *see* **Languasco, Alessandro et al., 2004a:20051**
Müller, Thomas W. (*with* Schlage-Puchta, Jan-Christoph) Normal growth of large groups. (English summary) **2004j:20057**
Olivier, Michel Jacques *see* **Cohen, Henri et al., 2004a:11115**
Schlage-Puchta, Jan-Christoph *see* **Müller, Thomas W., 2004j:20057**

11N56 Rate of growth of arithmetic functions

Cao, Hui Zhong The number of essentially different factorizations of a positive integer. (Chinese. English and Chinese summaries) **2004f:11106**
(Euler, Leonhard) *see* **Ramachandra, Kanakanahalli, 2004g:11086**
Luca, Florian On the product of divisors of n and of $\sigma(n)$. (English summary) **2004e:11107**
Ramachandra, Kanakanahalli Could L. Euler have conjectured what B. Riemann did? (English summary) **2004g:11086**
(Riemann, Georg Friedrich Bernhard) *see* **Ramachandra, Kanakanahalli, 2004g:11086**
Shparlinski, Igor E. Prime divisors of sparse integers. (English summary) **2004g:11087**
Sinyavskiĭ, O. V. The sum of divisors in the ring of Gaussian integers. (Russian. English and Ukrainian summaries) **2004j:11113**

Items with secondary classifications in 11N56

Bachman, Gennady On the coefficients of ternary cyclotomic polynomials. (English summary) **2004a:11020**
Ivić, Aleksandar On a sum involving the prime counting function $\pi(x)$. (English summary) **2004k:11153**
Pappalardi, Francesco Square free values of the order function. (English summary) **2004i:11116**
Pavlov, A. I. Asymptotics of an arithmetic sum. (Russian) **2004f:11104**

11N60 Distribution functions associated with additive and positive multiplicative functions

Changa, M. E. On numbers, all of whose prime divisors lie in special intervals. (Russian. Russian summary) **2004m:11153**
— On the number of prime numbers that give square-free sums with given numbers. (Russian)
Choi, Eun-Hee (*with* Schwarz, Wolfgang Karl) Mean-values of products of shifted arithmetical functions. (English summary) **2004a:11102**
Mačiulis, A. Some formulas for the moments of additive functions. (English summary) **2004a:11103**
Schwarz, Wolfgang Karl *see* **Choi, Eun-Hee, 2004a:11102**
Steiner, Wolfgang On the joint distribution of q-additive functions on polynomial sequences. (English summary) **2004m:11154**
Stepanauskas, Gediminas The mean values of multiplicative functions. V. (English summary) **2004b:11141**
Varbanets', P. D. On the number of prime factors of integer matrices. (English summary) **2004m:11155**

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De Koninck, Jean-Marie (*with* Kátai, Imre) On the frequency of k-deficient numbers. (English summary) **2004a:11098**
— (*with* Doyon, Nicolas) À propos de l'indice de composition des nombres. (English summary) [On the index of composition of numbers] **2004e:11104**
Doyon, Nicolas *see* **De Koninck, Jean-Marie, 2004e:11104**
Kátai, Imre (*with* Subbarao, M. V.) Distribution of additive and q-additive functions under some conditions. (English summary) **2004k:11130**
— *see also* **De Koninck, Jean-Marie, 2004a:11098**
Martin, Gregory G. Asymmetries in the Shanks-Rényi prime number race. **2004b:11134**
Subbarao, M. V. *see* **Kátai, Imre, 2004k:11130**

11N64 Other results on the distribution of values or the characterization of arithmetic functions

Bui Minh Phong A characterization of some unimodular multiplicative functions. II. **2004a:11104**
Chinen, Koji (*with* Murata, Leo) On a distribution property of the residual order of a (mod p). (English summary) **2004c:11174**
De Koninck, Jean-Marie (*with* Doyon, Nicolas) Large and small gaps between consecutive Niven numbers. (English summary) **2004h:11078**
Doyon, Nicolas *see* **De Koninck, Jean-Marie, 2004h:11078**
Gao, Nan m-power residues and their mean value properties. (Chinese. English and Chinese summaries)
von zur Gathen, Joachim (*with* Pappalardi, Francesco) Density estimates related to Gauß periods. (English summary) **2004c:11175**
Ge, Dan (*with* He, Yan Feng[2]) Some mean value formulas of the square residues. (Chinese. English and Chinese summaries)
He, Yan Feng[2] *see* **Ge, Dan**

Hildebrand, A. J. Erdős' problems on consecutive integers. (English summary) **2004b:11142**
Kan, Jiahai A note on two conjectures. **2004m:11156**
Kowalski, Emmanuel On the "reducibility" of arctangents of integers.
Lau, Yuk-Kam On a generalized divisor problem. II. (English summary) **2004g:11088**
Mauclaire, Jean-Loup Some results on additive arithmetical functions with values in a group. (English summary) **2004c:11176**
Murata, Leo *see* **Chinen, Koji**, **2004c:11174**
Pappalardi, Francesco *see* **von zur Gathen, Joachim**, **2004c:11175**
Savastru, O. V. Distribution of the non-symmetric divisor function over $\mathbf{Z}[i]$ in arithmetic progression. (English and Ukrainian summaries)
Zábrádi, Gergely On irregularities in the graph of generalized divisor functions. **2004j:11114**

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Boca, Florin P. (*with* Zaharescu, Alexandru; Gologan, Radu N.) On the index of Farey sequences. (English summary) **2004c:11021**
Changa, M. E. Summation of multiplicative functions. (Russian) **2004k:11151**
Croot, Ernest S., III On a coloring conjecture about unit fractions. (English summary) **2004m:11049**
Daboussi, Hédi (*with* Sárközy, András) On the correlation of the truncated Liouville function. **2004e:11083**
Dong, Zhong Min An arithmetical function and its mean value. (Chinese. English and Chinese summaries)
Gologan, Radu N. *see* **Boca, Florin P. et al.**, **2004c:11021**
Grekos, Georges *see* **Strauch, Oto et al.**, **2004j:11081**
Grytczuk, Aleksander (*with* Wójtowicz, Marek) On a Lehmer problem concerning Euler's totient function. (English summary) **2004h:11004**
Hall, R. R. (*with* Shiu, P.) The index of a Farey sequence. **2004j:11019**
Liu, Jianya On Lagrange's theorem with prime variables. (English summary) **2004m:11166**
Luca, Florian (*with* Stănică, Pantelimon) On the prime power factorization of $n!$ (English summary) **2004f:11082**
Nicolas, Jean-Louis (*with* Sitaramaiah, Varanasi) On a class of ψ-convolutions characterized by the identical equation. (English and French summaries) **2004k:11008**
Paštéka, Milan *see* **Strauch, Oto et al.**, **2004j:11081**
Pétermann, Y.-F. S. On fluctuations in the mean of a sum-of-divisors function. **2004m:11150**
Sárközy, András *see* **Daboussi, Hédi**, **2004e:11083**
Savastru, O. V. The non-symmetric divisor function $\tau(1, 1, 2; n)$ in arithmetic progression. (English and Russian summaries) **2004c:11173**
Shiu, P. *see* **Hall, R. R.**, **2004j:11019**
Sitaramaiah, Varanasi *see* **Nicolas, Jean-Louis**, **2004k:11008**
Stănică, Pantelimon *see* **Luca, Florian**, **2004f:11082**
Strauch, Oto (*with* Paštéka, Milan; Grekos, Georges) Kloosterman's uniformly distributed sequence. (English summary) **2004j:11081**
Wójtowicz, Marek *see* **Grytczuk, Aleksander**, **2004h:11004**
Zaharescu, Alexandru *see* **Boca, Florin P. et al.**, **2004c:11021**

11N69 Distribution of integers in special residue classes

Chen, Guo Hui (*with* Liu, Hua Ning) A new congruence equation and its mean value. (Chinese. English and Chinese summaries)
Cobeli, Cristian (*with* Gonek, S. M.; Zaharescu, Alexandru) The distribution of patterns of inverses modulo a prime. (English summary) **2004i:11117**
— (*with* Vâjâitu, Marian; Zaharescu, Alexandru) Distribution of gaps between the inverses mod q. (English summary) **2004a:11105**
Elliott, P. D. T. A. The least prime primitive root and Linnik's theorem. **2004e:11108**
Gao, Li[2] Distribution of the difference of primitive roots modulo p and their inverses. (Chinese. English and Chinese summaries) **2004e:11109**
Garaev, M. Z. (*with* Kueh, Ka-Lam) Distribution of special sequences modulo a large prime. (English summary) **2004m:11157**
Gonek, S. M. *see* **Cobeli, Cristian et al.**, **2004i:11117**
Hummel, Patrick On consecutive quadratic non-residues: a conjecture of Issai Schur. (English summary) **2004k:11157**
Kueh, Ka-Lam *see* **Garaev, M. Z.**, **2004m:11157**
Li, Shuguang[1] (*with* Pomerance, Carl) Primitive roots: a survey. (English summary) **2004a:11106**
— (*with* Pomerance, Carl) On generalizing Artin's conjecture on primitive roots to composite moduli. **2004c:11177**
Liu, Hua Ning *see* **Chen, Guo Hui**
Luca, Florian (*with* Stănică, Pantelimon) Products of factorials modulo p. (English summary) **2004j:11115**
Pomerance, Carl *see* **Li, Shuguang**[1], **2004a:11106** *and* **2004c:11177**
Stănică, Pantelimon *see* **Luca, Florian**, **2004j:11115**
Vâjâitu, Marian *see* **Cobeli, Cristian et al.**, **2004a:11105**
Yi, Yuan *see* **Zhang, Wen Peng**, **2004c:11178**
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Zhang, Wen Peng (*with* Yi, Yuan) Some applications of Bombieri's estimate for exponential sums. **2004c:11178**
— On a problem related to Golomb's conjectures. (English summary) **2004c:11179**

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Arnol'd, V. I. The Fermat-Euler dynamical system and the statistics of the arithmetic of geometric progressions. (Russian. Russian summary) **2004k:11005**
Moree, Pieter Asymptotically exact heuristics for (near) primitive roots. II. (English summary) **2004m:11188**
Yi, Yuan (*with* Zhang, Wen Peng) On generalization of Lehmer D H problem. (English and Chinese summaries) [On a generalization of a D. H. Lehmer problem] **2004b:11123**
Zhang, Wen Peng A problem of D. H. Lehmer and its mean square value formula. (English summary) **2004d:11097**
— *see also* **Yi, Yuan**, **2004b:11123**

11N75 Applications of automorphic functions and forms to multiplicative problems [see also 11Fxx]

Sarnak, Peter Spectra of hyperbolic surfaces. (English summary) **2004f:11107**

Items with secondary classifications in 11N75

Vinogradov, A. I. Points beneath a hyperbola and the circle problem. A spectral approach. (Russian. English and Russian summaries) **2004g:11089**

11N80 Generalized primes and integers

Items with secondary classifications in 11N80

Porubský, Štefan Sperner type theorems for generalized divisors. (English summary) **2004e:05195**
Varbanets', P. D. On the number of prime factors of integer matrices. (English summary) **2004m:11155**

11N99 None of the above, but in this section

Items with secondary classifications in 11N99

Miyake, Katsuya Some aspects of interactions between algebraic number theory and analytic number theory. (English summary) **2004b:11001**

11Pxx Additive number theory; partitions

11P05 Waring's problem and variants

Brüdern, J. (*with* Kawada, Koichi; Wooley, Trevor D.) Additive representation in thin sequences. V. Mixed problems of Waring's type. **2004b:11143**
Choudhry, Ajai On the number of representations of an integer as a sum of four integral fifth powers. (English summary)
Heath-Brown, D. R. (*with* Tolev, D. I.) Lagrange's four squares theorem with one prime and three almost-prime variables. **2004c:11180**
Kawada, Koichi *see* **Brüdern, J. et al.**, **2004b:11143**
Listratenko, Yu. R. Estimation of the number of summands in Waring's problem for the integer parts of fixed powers of nonnegative numbers. (Russian. Russian summary) **2004m:11158**
Tolev, D. I. *see* **Heath-Brown, D. R.**, **2004c:11180**
Wooley, Trevor D. On Vu's thin basis theorem in Waring's problem. (English summary) **2004j:11116**
— Slim exceptional sets and the asymptotic formula in Waring's problem. **2004c:11181**
— *see also* **Brüdern, J. et al.**, **2004b:11143**

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Arkhipov, G. I. (*with* Chubarikov, V. N.) On the number of summands in Vinogradov's additive problem and its generalizations. (Russian) **2004i:11123**
Borwein, Peter B. (*with* Lisoněk, Petr; Percival, Colin) Computational investigations of the Prouhet-Tarry-Escott problem. (English summary) **2004c:11042**
Browning, T. D. Sums of four biquadrates. **2004d:11096**
Brüdern, J. (*with* Wooley, Trevor D.) The paucity problem for certain pairs of diagonal equations. **2004b:11038**
Cao, Xiao-dong *see* **Zhai, Wen Guang**, **2004c:11186**
Choudhry, Ajai Ideal solutions of the Tarry-Escott problem of degrees four and five and related Diophantine systems. (English summary) **2004d:11021**
Chubarikov, V. N. *see* **Arkhipov, G. I.**, **2004i:11123**
Deutsch, Jesse Ira An alternate proof of Cohn's four squares theorem. (English summary) **2004k:11037**
Ford, Kevin Recent progress on the estimation of Weyl sums. **2004e:11090**
Frankel, N. E. *see* **Garoni, T. M.**, **2004d:33022**
Garaev, M. Z. On the Waring-Goldbach problem with small non-integer exponent. **2004c:11183**
Garoni, T. M. (*with* Frankel, N. E.) On the ubiquity of the Lévy integral—its relationship with the generalized Euler-Jacobi series and their asymptotics beyond all orders. (English summary) **2004d:33022**
Lisoněk, Petr *see* **Borwein, Peter B. et al.**, **2004c:11042**
Percival, Colin *see* **Borwein, Peter B. et al.**, **2004c:11042**
Ustinov, A. V. On a Diophantine inequality. (Russian) **2004i:11029**
Wang, Ming-qiang On sums of a prime, and a square of prime, and a k-power of prime. **2004a:11109**
Wooley, Trevor D. *see* **Brüdern, J.**, **2004b:11038**
Zhai, Wen Guang (*with* Cao, Xiao-dong) On a Diophantine inequality over primes. (English and Chinese summaries) **2004c:11186**

11P21 Lattice points in specified regions

Adhikari, Sukumar Das (*with* Chen, Yong-Gao) On a question regarding visibility of lattice points. III. (English summary) **2004a:11107**
Chamizo, Fernando (*with* Córdoba, Antonio) A path integral approach to lattice point problems. (English summary) **2004h:11079**
Chen, Yong-Gao *see* **Adhikari, Sukumar Das**, **2004a:11107**
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Fomenko, O. M. The distribution of lattice points on hyperboloids. (Russian. Russian summary) **2004m:11159**

Hofmann, Steve (*with* Iosevich, Alexander; Weidinger, D.) Lattice points inside random ellipsoids. **2004m:11160**
Huxley, M. N. Integer points, exponential sums and the Riemann zeta function. **2004d:11098**
Iosevich, Alexander *see* **Hofmann, Steve et al., 2004m:11160**
Kuba, Gerald On rounding error sums related to the circle problem. (English summary) **2004f:11108**
— Zur Verteilung der Quadrate ganzer Zahlen in rationalen Quaternionenalgebren. (English summary) [On the distribution of squares of integers in rational quaternion algebras] **2004i:11118**
— On rounding error sums related to the circle problem. II. (English summary) **2004i:11119**
— The true order or magnitude of Lamé rounding error sums. (English summary) **2004m:11161**
— On the distribution of squares of integral Cayley numbers. **2004f:11109**
— On the number of lattice points in certain planar segments. (English summary) **2004i:11120**
Lin, Ke-Pao (*with* Yau, Stephen S.-T.) Counting the number of integral points in general n-dimensional tetrahedra and Bernoulli polynomials. (English summary) **2004c:11182**
Marklof, Jens Pair correlation densities of inhomogeneous quadratic forms. II. (English summary) **2004f:11110a**
— Correction to: "Pair correlation densities of inhomogeneous quadratic forms. II" [Duke Math. J. **115** (2002), no. 3, 409–434]. **2004f:11110b**
Müller, Wolfgang[2] Lattice points in bodies with algebraic boundary. **2004i:11121**
Pachev, U. M. Ergodic theorems and mixing theorems for flows of lattice points on some isotropic hyperboloids. (Russian) **2004f:11111**
Vergne, Michèle Residue formulae for Verlinde sums, and for number of integral points in convex rational polytopes. **2004k:11158**
Vinogradov, A. I. Points beneath a hyperbola and the circle problem. A spectral approach. (Russian. English and Russian summaries) **2004g:11089**
Wang, Ren Hong (*with* Xu, Zhi-qiang) Discrete truncated powers and lattice points in rational polytope. (English summary) **2004i:11122**
Weidinger, D. *see* **Hofmann, Steve et al., 2004m:11160**
Xu, Zhi-qiang *see* **Wang, Ren Hong, 2004i:11122**
Yau, Stephen S.-T. *see* **Lin, Ke-Pao, 2004c:11182**
Zhai, Wen Guang On primitive lattice points in planar domains. **2004d:11099**

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Barvinok, A. I. (*with* Woods, Kevin) Short rational generating functions for lattice point problems. **2004e:05009**
Boca, Florin P. (*with* Gologan, Radu N.; Zaharescu, Alexandru) The average length of a trajectory in a certain billiard in a flat two-torus. (English summary) **2004m:37065**
Brandolini, L. (*with* Iosevich, Alexander; Travaglini, Giancarlo) Planar convex bodies, Fourier transform, lattice points, and irregularities of distribution. (English summary) **2004i:11088**
Chen, Yong-Gao (*with* Cheng, Lin-Feng) Visibility of lattice points. **2004g:11053**
Cheng, Lin-Feng *see* **Chen, Yong-Gao, 2004g:11053**
Gan, Wee Teck (*with* Oh, Hee) Equidistribution of integer points on a family of homogeneous varieties: a problem of Linnik. (English summary) **2004e:22014**
Gologan, Radu N. *see* **Boca, Florin P. et al., 2004m:37065**
Huxley, M. N. Exponential sums and lattice points. III. **2004m:11127**
Iosevich, Alexander *see* **Brandolini, L. et al., 2004i:11088**
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Petridis, Yiannis N. (*with* Toth, John A.) The remainder in Weyl's law for random two-dimensional flat tori. (English summary) **2004b:58042**
Robert, O. (*with* Sargos, Patrick) A third derivative test for mean values of exponential sums with application to lattice point problems. **2004d:11077**
Sargos, Patrick *see* **Robert, O., 2004d:11077**
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Vaughan, Robert C. A mean value theorem for cubic fields. (English summary) **2004c:11211**
Woods, Kevin *see* **Barvinok, A. I., 2004e:05009**
Yudin, Vladimir Aleksandrovich The number of lattice points in a spherical shell. (Russian. Russian summary) **2004e:11073**
Zaharescu, Alexandru *see* **Boca, Florin P. et al., 2004m:37065**

11P32 Goldbach-type theorems; other additive questions involving primes

Arkhipov, G. I. (*with* Chubarikov, V. N.) On the number of summands in Vinogradov's additive problem and its generalizations. (Russian) **2004i:11123**
— (*with* Chubarikov, V. N.) On the exceptional set in a Goldbach-type binary problem. (Russian)
Bamberg, John (*with* Cairns, Grant; Kilminster, Devin) The crystallographic restriction, permutations, and Goldbach's conjecture. **2004a:11108**
Cai, Yingchun A remark on the Piatetski-Shapiro–Vinogradov theorem. **2004h:11080**
Cairns, Grant *see* **Bamberg, John et al., 2004a:11108**
Cao, Xiao-dong *see* **Zhai, Wen Guang, 2004c:11186**
Chen, Jongyi On two binary additive problems over prime numbers. **2004j:11117**
Chubarikov, V. N. *see* **Arkhipov, G. I., 2004i:11123** *and* **Omarov, A. O. et al., 2004m:11164**
Cook, Roger J. (*with* Fox, Andrew) The values of ternary quadratic forms at prime arguments. **2004d:11100**
Cui, Zhen Hua's five prime square theorem in arithmetic progressions. (Chinese. English and Chinese summaries) **2004k:11159**
Fox, Andrew *see* **Cook, Roger J., 2004d:11100**
Garaev, M. Z. On the Waring-Goldbach problem with small non-integer exponent. **2004c:11183**
Jiang, Chun Xuan Prime theorem in Santilli's isonumber theory. II. $P_1 = (m-1)\hat{\times}P^{\hat{n}} + m$ and $P_2 = m\hat{\times}P^{\hat{n}} + m - 1$. (English summary)
Kilminster, Devin *see* **Bamberg, John et al., 2004a:11108**
Languasco, Alessandro On the exceptional set of Goldbach's problem in short intervals. (English summary) **2004m:11162**
Li, Hong Ze The exceptional set for the sum of a prime and a square. (English summary) **2004c:11184**
— A numerical bound for small prime solutions of a pair of linear equations in five variables. (Chinese. English and Chinese summaries) **2004k:11160**
Liu, Ming-Chit (*with* Wang, Tian Ze) On linear ternary equations with prime variables—Baker's constant and Vinogradov's bound. **2004e:11110**
Meng, Xian Meng On the sum of two Piatetski-Shapiro primes. (Chinese. English and Chinese summaries) **2004m:11163**
Omarov, A. O. (*with* Soliba, Kh. M.; Chubarikov, V. N.) On the cardinality of the exceptional set in a binary additive problem. (Russian) **2004m:11164**
Pan, Cheng Biao A historical comment about the GVT in short interval. (English summary) **2004k:11161**
Peneva, T. P. Corrigendum: "On the exceptional set for Goldbach's problem in short intervals" [Monatsh. Math. **132** (2001), no. 1, 49–65]. (English summary) **2004m:11165**
Pintz, J. (*with* Ruzsa, Imre Z.) On Linnik's approximation to Goldbach's problem. I. **2004c:11185**
Ruzsa, Imre Z. *see* **Pintz, J., 2004c:11185**
Soliba, Kh. M. *see* **Omarov, A. O. et al., 2004m:11164**
Wang, Ming-qiang On sums of a prime, and a square of prime, and a k-power of prime. **2004a:11109**
— (*with* Yu, Jiguo) On the sum of a prime and a k-power of a prime. (English and Chinese summaries) **2004e:11111**
Wang, Tian Ze *see* **Liu, Ming-Chit, 2004e:11110** *and* **Zhang, Zhen Feng[2]**
(Wang, Yuan[1]) *see* **Goldbach conjecture, 2004c:11187**
Yu, Jiguo *see* **Wang, Ming-qiang, 2004e:11111**
Zhai, Wen Guang (*with* Cao, Xiao-dong) On a Diophantine inequality over primes. (English and Chinese summaries) **2004c:11186**
Zhang, Zhen Feng[2] (*with* Wang, Tian Ze) The ternary Goldbach problem with primes in arithmetic progressions. (Chinese. English and Chinese summaries)

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Atanassov, Krassimir T. On an arithmetic function. (English summary)
Cai, Yingchun (*with* Lu, Minggao) On the upper bound for $\pi_2(x)$. **2004i:11112**
Changa, M. E. Prime numbers in special intervals and additive problems with such numbers. (Russian. Russian summary) **2004k:11137**
Chubarikov, V. N. *see* **Arkhipov, G. I., 2004g:11068**
Elsholtz, Christian The inverse Goldbach problem. (English summary) **2004g:11090**
— Some remarks on the additive structure of the set of primes. **2004a:11110**
Heath-Brown, D. R. (*with* Tolev, D. I.) Lagrange's four squares theorem with one prime and three almost-prime variables. **2004c:11180**
Li, Hong Ze A numerical bound for small prime solutions of some binary equations. (English summary) **2004c:11188**
Liu, Tao The representation of even integers by fourth powers. (Chinese. English and Chinese summaries) **2004c:11189**
Lu, Minggao *see* **Cai, Yingchun, 2004i:11112**
Pan, Cheng Biao The influence of the school of Russian number theorists on the advancement of analytic number theory research in China. **2004e:11001**
Peneva, T. P. An additive problem with Piatetski-Shapiro primes and almost-primes. (English summary) **2004j:11109**
Tolev, D. I. *see* **Heath-Brown, D. R., 2004c:11180**

11P55 Applications of the Hardy-Littlewood method [see also 11D85]

Heath-Brown, D. R. Rational points and analytic number theory. (English summary) **2004k:11162**
Li, Hong Ze A numerical bound for small prime solutions of some binary equations. (English summary) **2004c:11188**
Liu, Jianya On Lagrange's theorem with prime variables. (English summary) **2004m:11166**
Liu, Tao The representation of even integers by fourth powers. (Chinese. English and Chinese summaries) **2004c:11189**

Items with secondary classifications in 11P55

Brüdern, J. (*with* Kawada, Koichi; Wooley, Trevor D.) Additive representation in thin sequences. V. Mixed problems of Waring's type. **2004b:11143**
— (*with* Wooley, Trevor D.) The paucity problem for certain pairs of diagonal equations. **2004b:11038**
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Wooley, Trevor D. On Vu's thin basis theorem in Waring's problem. (English summary) **2004j:11116**
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11P70 Inverse problems of additive number theory

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Plagne, Alain *see* **Hamidoune, Yahya Ould, 2004m:11168**
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11P81 Elementary theory of partitions [see also 05A17]

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— (*with* Yee, Ae Ja) On the generalized Rogers-Ramanujan continued fraction. (English summary) **2004m:11008**
Capparelli, Stefano (*with* Lepowsky, James; Milas, Antun) The Rogers-Ramanujan recursion and intertwining operators. (English summary) **2004j:17035**
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Nicolas, Jean-Louis (*with* Sárközy, András) On the asymptotic behaviour of general partition functions. II. (English summary) **2004m:11171**
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Yee, Ae Ja Combinatorial proofs of generating function identities for F-partitions. (English summary) **2004b:05025**
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11P82 Analytic theory of partitions

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Block, Martin *see* **Weiss, Christoph et al., 2004b:11146**
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— (*with* Sárközy, András) On the asymptotic behaviour of general partition functions. II. (English summary) **2004m:11171**
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Canfield, E. Rodney (*with* Corteel, Sylvie; Hitczenko, Paweł) Random partitions with non negative rth differences. (English summary) **2004b:05019**
Corteel, Sylvie *see* **Canfield, E. Rodney et al., 2004b:05019**
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Petrov, F. V. The limit shape of Young diagrams for multiplicative statistics with polynomial growth of the index. (Russian. English and Russian summaries) **2004m:60018**
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11P83 Partitions; congruences and congruential restrictions

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Alladi, Krishnaswami (*with* Berkovich, Alexander) A limiting form of the q-Dixon ${}_4\varphi_3$ summation and related partition identities. (English summary) **2004d:11102**
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— (*with* Chan, Song Heng; Liu, Zhi-Guo; Yesilyurt, Hamza) A new identity for $(q;q)_\infty^{10}$ with an application to Ramanujan's partition congruence modulo 11. (English summary) **2004k:11166**
Boylan, Matthew *see* **Ahlgren, Scott, 2004e:11115**
Chan, Heng Huat (*with* Lewis, Richard P.) Partition identities and congruences associated with the Fourier coefficients of the Euler products. (English summary) **2004j:11123**
Chan, Song Heng *see* **Berndt, Bruce C. et al., 2004k:11166**
Chua, Kok Seng Explicit congruences for the partition function modulo every prime. (English summary) **2004h:11081**
Hahn, Heekyoung Septic analogues of the Rogers-Ramanujan functions. **2004j:11124**
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Robbins, Neville On partitions and sums of squares. (English summary) **2004i:11126**
Yee, Ae Ja *see* **Berndt, Bruce C. et al., 2004j:11122**
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Alladi, Krishnaswami (*with* Andrews, George E.; Berkovich, Alexander) A new four parameter q-series identity and its partition implications. (English summary) **2004g:05018**
Andrews, George E. *see* **Alladi, Krishnaswami et al., 2004g:05018**
Berkovich, Alexander *see* **Alladi, Krishnaswami et al., 2004g:05018**
Berndt, Bruce C. (*with* Yee, Ae Ja; Zaharescu, Alexandru) On the parity of partition functions. (English summary) **2004k:11164**
Kongsiriwong, Sarachai (*with* Liu, Zhi-Guo) Uniform proofs of q-series-product identities. (English summary) **2004j:33020**
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Padmavathamma (*with* Ruby Salestina, M.; Sudarshan, S. R.) Combinatorial proof of the Gollnitz' theorem on partitions. (English summary) **2004i:11125**
Robbins, Neville Some properties of overpartitions. (English summary) **2004m:11170**
Ruby Salestina, M. *see* **Padmavathamma et al., 2004i:11125**
Sudarshan, S. R. *see* **Padmavathamma et al., 2004i:11125**
Yee, Ae Ja *see* **Berndt, Bruce C. et al., 2004k:11164**
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11P99 None of the above, but in this section

Boyarinov, R. N. On an additive problem with an increasing number of summands. (Russian. Russian summary)
Gica, Alexandru Another proof of a conjecture in additive number theory. (English summary) **2004f:11115**

Items with secondary classifications in 11P99

Pach, János Midpoints of segments induced by a point set. (English summary) **2004f:11019**

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15.}

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Koch, Helmut V. The history of algebraic number theory and its reflection at the International Congresses of Mathematicians. (English summary) **2004k:11001**

11R04 Algebraic numbers; rings of algebraic integers

Artin, Emil Algebraische Zahlentheorie. [Algebraic number theory] **2004g:11091**
Carter, James Edgar Normal integral bases in quadratic and cyclic cubic extensions of quadratic fields. (English summary) **2004k:11167**
Charkani, M. E. (*with* Lahlou, Ouafae) On Dedekind's criterion and monogenicity over Dedekind rings. (English summary) **2004m:11173**
Dresden, Gregory P. Sums of heights of algebraic numbers. (English summary) **2004b:11147**
Dubickas, Artūras On the degree of a linear form in conjugates of an algebraic number. (English summary) **2004c:11194**
Guimond, Louis-Sébastien (*with* Masáková, Z.; Pelantová, Edita) Arithmetics of beta-expansions. **2004m:11174**
Ichimura, Humio Note on the ring of integers of a Kummer extension of prime degree. I. (English summary) **2004i:11127**
Lahlou, Ouafae *see* **Charkani, M. E., 2004m:11173**
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Drungilas, Paulius (*with* Dubickas, Artūras) Multiplicative dependence of shifted algebraic numbers. (English summary) **2004g:11020**
Dubickas, Artūras Some Diophantine properties of the Mahler measure. (Russian. Russian summary) **2004b:11148**
— *see also* **Drungilas, Paulius, 2004g:11020**
Elia, Michele (*with* Interlando, José Carmelo) A class of Fibonacci ideal lattices in $\mathbb{Z}[\zeta_{12}]$. **2004j:11067**
Farkas, Gábor Periodic elements and number systems in $\mathbb{Q}(\sqrt{2})$. (English summary) **2004k:11168**
Interlando, José Carmelo *see* **Elia, Michele, 2004j:11067**
Kowalski, Emmanuel Some local-global applications of Kummer theory. (English summary) **2004b:11076**

11R06 PV-numbers and generalizations; other special algebraic numbers

Dubickas, Artūras Sequences with infinitely many composite numbers. (English summary) **2004a:11112**
— (*with* Smyth, Chris J.) Variations on the theme of Hilbert's Theorem 90. (English summary) **2004c:11195**
— Some Diophantine properties of the Mahler measure. (Russian. Russian summary) **2004b:11148**
Fan, Ai Hua[1] (*with* Schmeling, Jörg) ε-Pisot numbers in any real algebraic number field are relatively dense. (English summary) **2004m:11175**
Garth, David Complex Pisot numbers of small modulus. (English and French summaries) **2004d:11103**
Gazeau, Jean Pierre Beta-lattices for aperiodic order. (English summary) **2004e:11116**
Hu, Kang Xiu An upper bound for the norm of an auxiliary function. (Chinese. English and Chinese summaries) **2004m:11176**
Lakatos, Piroska A new construction of Salem polynomials. (English and French summaries) **2004b:11149**
Lalin, Matilde N. Some examples of Mahler measures as multiple polylogarithms. (English summary) **2004h:11082**
Schmeling, Jörg *see* **Fan, Ai Hua[1], 2004m:11175**
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Akiyama, Shigeki (*with* Gjini, Nertila) On the connectedness of self-affine attractors. (English summary) **2004m:37018**
(Berthé, V.) *see* **Fogg, N. Pytheas, 2004c:37005**
Borwein, Peter B. (*with* Hare, Kevin G.) Non-trivial quadratic approximations to zero of a family of cubic Pisot numbers. (English summary) **2004e:11075**
Dresden, Gregory P. Sums of heights of algebraic numbers. (English summary) **2004b:11147**
(Ferenczi, Sébastien) *see* **Fogg, N. Pytheas, 2004c:37005**
Fogg, N. Pytheas ★ Substitutions in dynamics, arithmetics and combinatorics. **2004c:37005**
Frougny, Christiane (*with* Gazeau, Jean Pierre; Krejcar, Rudolf) Additive and multiplicative properties of point sets based on beta-integers. (English and French summaries) **2004h:11064**
Gazeau, Jean Pierre *see* **Frougny, Christiane et al., 2004h:11064**
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Gross, Benedict H. Unramified reciprocal polynomials and Coxeter decompositions. (English and Russian summaries) **2004d:11056**
Guimond, Louis-Sébastien (*with* Masáková, Z.; Pelantová, Edita) Arithmetics of beta-expansions. **2004m:11174**
Hare, Kevin G. *see* **Borwein, Peter B., 2004e:11075**
Hironaka, Eriko Lehmer's problem, McKay's correspondence, and 2, 3, 7. (English summary) **2004j:57016**
Krejcar, Rudolf *see* **Frougny, Christiane et al., 2004h:11064**
Masáková, Z. *see* **Guimond, Louis-Sébastien et al., 2004m:11174**
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McMullen, Curtis T. Coxeter groups, Salem numbers and the Hilbert metric. **2004b:20054**
Pelantová, Edita *see* **Guimond, Louis-Sébastien et al., 2004m:11174**
Sidorov, Nikita Ergodic-theoretic properties of certain Bernoulli convolutions. (English summary) **2004h:37007**
— (*with* Solomyak, Boris) Spectra of Bernoulli convolutions as multipliers in L^p on the circle. (English summary) **2004i:47060**

Siegel, Anne Représentation des systèmes dynamiques substitutifs non unimodulaires. (English and French summaries) [Representation of nonunimodular substitution dynamical systems] **2004f:37012**
— *see also* **Fogg, N. Pytheas, 2004c:37005**
Solomyak, Boris (*with* Xu, Hui[1]) On the 'Mandelbrot set' for a pair of linear maps and complex Bernoulli convolutions. (English summary) **2004g:28012**
— *see also* **Sidorov, Nikita, 2004i:47060**
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Substitutions in dynamics, arithmetics and combinatorics *see* **Fogg, N. Pytheas, 2004c:37005**

11R09 Polynomials (irreducibility, etc.)

Borwein, Peter B. (*with* Hare, Kevin G.; Mossinghoff, Michael J.) The Mahler measure of polynomials with odd coefficients. (English summary) **2004m:11177**
Evertse, Jan-Hendrik (*with* Hirata-Kohno, Noriko) Wirsing systems and resultant inequalities. **2004b:11150**
Hare, Kevin G. *see* **Borwein, Peter B. et al., 2004m:11177**
Hirata-Kohno, Noriko *see* **Evertse, Jan-Hendrik, 2004b:11150**
Mossinghoff, Michael J. *see* **Borwein, Peter B. et al., 2004m:11177**
Schinzel, Andrzej Reducibility of polynomials in one variable over the rationals. **2004d:11104**
Zaharescu, Alexandru An irreducibility criterion for composition of polynomials. (English summary) **2004i:11128**

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Albu, Toma (*with* Panaitopol, Laurenţiu) Quartic field extensions with no proper intermediate field. (English summary) **2004g:11094**
Allen, Martha (*with* Filaseta, Michael) A generalization of a second irreducibility theorem of I. Schur. **2004b:11028**
Avanzi, Roberto M. (*with* Zannier, Umberto M.) The equation $f(X) = f(Y)$ in rational functions $X = X(t)$, $Y = Y(t)$. (English summary) **2004m:14057**
Beukers, Frits (*with* Smyth, Chris J.) Cyclotomic points on curves. **2004b:11029**
Dubickas, Artūras On the degree of a linear form in conjugates of an algebraic number. (English summary) **2004c:11194**
Filaseta, Michael (*with* Williams, Richard L., Jr.) On the irreducibility of a certain class of Laguerre polynomials. (English summary) **2004k:11030**
— *see also* **Allen, Martha, 2004b:11028**
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Kaneko, Kan Integral bases and fundamental units of certain cubic number fields. (English summary) **2004m:11179**
Kishi, Yasuhiro A family of cyclic cubic polynomials whose roots are systems of fundamental units. (English summary) **2004g:11095a**
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Ji, Chun-Gang Sums of three integral squares in cyclotomic fields. (English summary) **2004d:11106**
Motose, Kaoru On values of cyclotomic polynomials. VI. **2004m:11181**
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Kraemer, Pavel Circular units in a bicyclic field. (English summary) **2004m:11183**
Kučera, Radan Formulae for the relative class number of an imaginary abelian field in the form of a product of determinants. (English summary) **2004c:11203**
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11R29 Class numbers, class groups, discriminants

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11R32 Galois theory

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11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [see also 20C10]

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11R34 Galois cohomology [see also 12Gxx, 16H05, 19A31]

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11R37 Class field theory

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Bush, M. R. Computation of Galois groups associated to the 2-class towers of some quadratic fields. (English summary) **2004f:11130**
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11R39 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E55]

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11R42 Zeta functions and L-functions of number fields [see also 11M41, 19F27]

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11R44 Distribution of prime ideals [see also 11N05]

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11R45 Density theorems

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11R47 Other analytic theory [see also 11Nxx]

Spearman, Blair K. (*with* Williams, Kenneth S.) Density of integers which are discriminants of cyclic cubic fields. (English summary) **2004b:11156**
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11R52 Quaternion and other division algebras: arithmetic, zeta functions

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11R54 Other algebras and orders, and their zeta and L-functions [see also 11S45, 16H05, 16Kxx]

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11R56 Adèle rings and groups

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11R58 Arithmetic theory of algebraic function fields [see also 14–XX]

Ahn, Jaehyun (*with* Jung, Hwanyup) Greither's maximal independent system of units in global function fields. **2004c:11213**
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Ballet, Stéphane Low increasing tower of algebraic function fields and bilinear complexity of multiplication in any extension of $\mathbb{F}_q$. (English summary) **2004m:11191**
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Deolalikar, Vinay Determining irreducibility and ramification groups for an additive extension of the rational function field. (English summary) **2004d:11114**
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11R60 Cyclotomic function fields (class groups, Bernoulli objects, etc.)

Ahn, Jaehyun *see* **Bae, Sunghan et al.**, **2004j:11144**
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Bae, Sunghan *see* **Ahn, Jaehyun et al., 2004m:11190**
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11R65 Class groups and Picard groups of orders

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11R70 K-theory of global fields [see also 19Fxx]

Banaszak, Grzegorz Higher analogues of Stickelberger's theorem. (English and French summaries) **2004j:11145**
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You, Hong (*with* Chen, Sheng[4]) The tame kernel of imaginary quadratic fields with class number 2 or 3. (English summary) **2004c:11218**
— (*with* Chen, Sheng[4]) Subrings in quadratic fields which are not universal for GE_2. (English summary) **2004c:11219**
Yu, Jing *see* **Yue, Qin, 2004k:11181**
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Guo, Xue-jun (*with* Qin, Hourong; Song, Guang-tian) Computing the tame kernel of $\mathbb{Q}(\zeta_8)$. (English summary) **2004c:19003**
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Song, Guang-tian *see* **Guo, Xue-jun et al., 2004c:19003**
Takeda, Yuichiro Complexes of exact Hermitian cubes and the Zagier conjecture. (English summary) **2004k:11107**
You, Hong *see* **Chen, Sheng[4], 2004d:19006**

11R80 Totally real and totally positive fields [see also 12J15]

Borisov, Alexandr On a question of Craven and a theorem of Belyi. (English summary) **2004f:11136**
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Leibak, Alar Some results on reduction of unary positive quadratic forms over totally real cyclic number fields. (English summary) **2004a:11027**
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Rajan, C. S. *see* **Prasad, Dipendra, 2004g:58045**

11Sxx Algebraic number theory: local and p-adic fields

11S05 Polynomials

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Einsiedler, Manfred (*with* Everest, Graham; Ward, Thomas B.) Morphic heights and periodic points. (English summary) **2004m:11102**
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Smith, William W. *see* **Chapman, Scott T. et al.**
Ward, Thomas B. *see* **Einsiedler, Manfred et al., 2004m:11102**

11S15 Ramification and extension theory

(Abbes, Ahmed) *see* **Saito, Takeshi[1]**
Brinon, O. Une généralisation de la théorie de Sen. (French summary) [A generalization of Sen's theory] **2004m:11194**
Hou, Xiang-Dong (*with* Keating, Kevin) Enumeration of isomorphism classes of extensions of p-adic fields. (English summary) **2004k:11182**
Keating, Kevin *see* **Hou, Xiang-Dong, 2004k:11182**
Kuz′min, L. V. Properties of l-adic logarithms of local units and their applications to the l-adic regulator and abelian fields. **2004d:11115**
Ono, Takashi On Poincaré sums for local fields. (English summary) **2004h:11095**
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Bernik, Janez A generalization of Brauer's theorem on splitting fields to semigroups. (English summary) **2004g:16020**
Bondarko, M. V. Links between associated additive Galois modules and computation of H^1 for local formal group modules. (English summary) **2004h:11096**
— Cohomology of formal group moduli and deeply ramified extensions. (English summary) **2004c:11222**
Doud, Darrin Wild ramification in number field extensions of prime degree. (English summary) **2004j:11130**
İkeda, Kâzim İlhan On the local Artin conductor $\mathfrak{f}_{\mathrm{Artin}}(\chi)$ of a character χ of $\mathrm{Gal}(E/K)$. II. Main results for the metabelian case. (English summary) **2004c:11224**
Kida, Masanari Ramification in the division fields of an elliptic curve. (English summary) **2004j:11052**
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11S20 Galois theory

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Khrennikov, A. N. (*with* Nilsson, Marcus; Nyqvist, Robert) The asymptotic number of periodic points of discrete polynomial p-adic dynamical systems. (English summary) **2004b:11158**
Nilsson, Marcus *see* **Khrennikov, A. N. et al., 2004b:11158**
Nyqvist, Robert *see* **Khrennikov, A. N. et al., 2004b:11158**
Vâjâitu, Marian (*with* Zaharescu, Alexandru) Galois groups with metric constraints. (English summary) **2004g:11105**
Zaharescu, Alexandru Integral bases over p-adic fields. (English summary) **2004g:11106**
— *see also* **Vâjâitu, Marian, 2004g:11105**

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Brinon, O. Une généralisation de la théorie de Sen. (French summary) [A generalization of Sen's theory] **2004m:11194**
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— (*with* Popescu, Nicolae; Zaharescu, Alexandru) Trace series on $\widetilde{\mathbb{Q}}_K$. (English summary) **2004h:11094**
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11S23 Integral representations

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(Henniart, Guy) *see* **Breuil, Christophe, 2004i:11052**
Joshi, Kirti (*with* Kim, Minhyong) A remark on potentially semi-stable representations of Hodge-Tate type $(0, 1)$. **2004b:11071**
Kim, Minhyong *see* **Joshi, Kirti, 2004b:11071**
Mézard, Ariane *see* **Breuil, Christophe, 2004i:11052**
Underwood, Robert Gene Galois module theory over a discrete valuation ring. **2004m:11198**

11S25 Galois cohomology [see also 12Gxx, 16H05]

Efrat, Ido Demuškin fields with valuations. (English summary) **2004d:11116**
Kottwitz, Robert E. (*with* Rapoport, Michael) On the existence of F-crystals. (English summary) **2004c:11221**
Koya, Yoshihiro On a duality of Galois cohomology and the strict cohomological dimension of higher local fields. (English summary) **2004g:11107**
Rapoport, Michael *see* **Kottwitz, Robert E., 2004c:11221**

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Aljadeff, Eli (*with* Sonn, Jack) Projective Schur groups of iterated power series fields. (English summary) **2004m:16027**
Bondarko, M. V. Cohomology of formal group moduli and deeply ramified extensions. (English summary) **2004c:11222**
Brinon, O. Une généralisation de la théorie de Sen. (French summary) [A generalization of Sen's theory] **2004m:11194**
Fontaine, Jean-Marc Analyse p-adique et representations galoisiennes. (English summary) [p-adic analysis and Galois representations] **2004e:11056**
van Hamel, Joost *see* **Scheiderer, Claus, 2004m:14041**
Kisilevsky, Hershy (*with* Sonn, Jack) On the n-torsion subgroup of the Brauer group of a number field. (English and French summaries) **2004j:11142**
Mokrane, Abdellah (*with* Tilouine, Jacques) Cohomology of Siegel varieties with p-adic integral coefficients and applications. (English and French summaries) **2004c:11081**
Moret-Bailly, Laurent Sur la R-équivalence de torseurs sous un groupe fini. (English and French summaries) [R-equivalence of torsors under a finite group] **2004b:14034**
Ochi, Yoshihiro (*with* Venjakob, Otmar) On the ranks of Iwasawa modules over p-adic Lie extensions. (English summary) **2004d:11107**
Ono, Takashi On Poincaré sums for local fields. (English summary) **2004h:11095**
Scheiderer, Claus (*with* van Hamel, Joost) Cohomology of tori over p-adic curves. (English summary) **2004m:14041**
Sonn, Jack *see* **Kisilevsky, Hershy, 2004j:11142** *and* **Aljadeff, Eli, 2004m:16027**
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11S31 Class field theory; p-adic formal groups [see also 14L05]

Bondarko, M. V. Links between associated additive Galois modules and computation of H^1 for local formal group modules. (English summary) **2004h:11096**
— Cohomology of formal group moduli and deeply ramified extensions. (English summary) **2004c:11222**
Childs, Lindsay N. (*with* Underwood, Robert Gene) Cyclic Hopf orders defined by isogenies of formal groups. (English summary) **2004i:11138**
Hayashi, Tsukasa Relative Lubin-Tate theory and the Galois module structure of integers of local fields. **2004m:11196**
Lorenz, Falko *see* **Vostokov, S. V., 2004k:11184**
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Underwood, Robert Gene *see* **Childs, Lindsay N., 2004i:11138**
Vostokov, S. V. (*with* Lorenz, Falko) An explicit formula for the Hilbert symbol for Honda groups in a multidimensional local field. (Russian. Russian summary) **2004k:11184**
— (*with* Pak, G. K.) Norm series in a multidimensional local field. (Russian. English and Russian summaries) **2004k:11183**
Zaldívar, Felipe ★ Cohomología de Galois de campos locales. (Spanish. Spanish summary) [Galois cohomology of local fields] **2004a:11124**

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Ershov, Yurii Leonidovich Abstract class field theory (a finitary approach). (Russian. Russian summary) **2004f:11131**
Faltings, Gerd Group schemes with strict $\mathcal{O}$-action. (English summary) **2004i:14052**
Fukaya, Takako The theory of Coleman power series for K_2. (English summary) **2004c:11116**
Scherk, John The ramification polygon for curves over a finite field. (English summary) **2004c:11220**
Takeuchi, Teruo Scholz admissible moduli of finite Galois extensions of algebraic number fields. (English summary) **2004i:11133**

11S37 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E50]

Harris, Michael On the local Langlands correspondence. (English summary) **2004c:11223**
Henniart, Guy A report on the proof of the Langlands conjectures for $GL(N)$ over p-adic fields. **2004e:11136**
İkeda, Kâzim İlhan On the local Artin conductor $\mathfrak{f}_{\mathrm{Artin}}(\chi)$ of a character χ of $\mathrm{Gal}(E/K)$. II. Main results for the metabelian case. (English summary) **2004c:11224**

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Ban, Dubravka (*with* Jantzen, Chris) The Langlands classification for non-connected p-adic groups. II. Multiplicity one. (English summary) **2004e:22019**
Jantzen, Chris *see* **Ban, Dubravka, 2004e:22019**
Khare, Chandrashekhar (*with* Kiming, Ian) Mod pq Galois representations and Serre's conjecture. (English summary) **2004d:11043**
Kim, Henry H. Automorphic L-functions.
Kiming, Ian *see* **Khare, Chandrashekhar, 2004d:11043**
Li, Wen-Ching Winnie Recent developments in automorphic forms and applications. **2004c:11075**
Suzuki, Toshiaki A maximal isotropic ring of a local field and spherical functions on a metaplectic group. (English summary) **2004c:22024**
Taylor, Richard L. Galois representations. (English summary) **2004f:11054**
Vignéras, Marie-France Modular representations of p-adic groups and of affine Hecke algebras. (English summary) **2004i:22019**
— Representations modulo p of the p-adic group $GL(2, F)$. (English summary) **2004m:22028**

11S40 Zeta functions and L-functions [see also 11M41, 19F27]

Belkale, Prakash (*with* Brosnan, Patrick) Periods and Igusa local zeta functions. **2004h:11097**
Brosnan, Patrick *see* **Belkale, Prakash, 2004h:11097**
Fox, Glenn J. A method of Washington applied to the derivation of a two-variable p-adic L-function. (English summary) **2004g:11108**
Hoornaert, Kathleen Newton polyhedra and the poles of Igusa's local zeta function. (English summary) **2004g:11109**
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Jiao, Rong Zheng *see* **Lu, Hong Wen, 2004a:11125**
Kim, Taekyun (*with* Ryoo, Cheon Seoung; Pak, Hong Kyung; Rim, Seog Hoon) A note on the analogs of p-adic L-functions and sums of powers. (English summary)
Lu, Hong Wen (*with* Jiao, Rong Zheng) The values of -1 of zeta-functions of ideal classes of real quadratic fields. (Chinese. English and Chinese summaries) **2004a:11125**
Pak, Hong Kyung *see* **Kim, Taekyun et al.**
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Urbanowicz, Jerzy (*with* van Wamelen, Paul) On linear congruence relations for Kubota-Leopoldt 2-adic L-functions. (English summary) **2004a:11126**
van Wamelen, Paul *see* **Urbanowicz, Jerzy, 2004a:11126**
Zuniga-Galindo, W. A. Local zeta functions and Newton polyhedra. (English summary) **2004h:11098**

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Kaczorowski, Jerzy Fourth millennium problem: the Riemann hypothesis. (Polish) **2004h:11070**
Loeser, François Motivic zeta functions for prehomogeneous vector spaces and castling transformations. (English summary) **2004h:11100**
— *see also* **Denef, Jan, 2004f:14040**
Zuniga-Galindo, W. A. Fundamental solutions of pseudo-differential operators over p-adic fields. (English summary) **2004e:11137**

11S45 Algebras and orders, and their zeta functions [see also 11R52, 11R54, 16H05, 16Kxx]

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Items with secondary classifications in 11S45

Childs, Lindsay N. (*with* Underwood, Robert Gene) Cyclic Hopf orders defined by isogenies of formal groups. (English summary) **2004i:11138**
Underwood, Robert Gene *see* **Childs, Lindsay N., 2004i:11138**

11S70 K-theory of local fields [see also 19Fxx]

Qin, Hourong *see* **Xu, Kejian, 2004b:11159**
Xu, Kejian (*with* Qin, Hourong) A class of torsion elements in K_2 of a local field. (English summary) **2004b:11159**

Items with secondary classifications in 11S70

Hesselholt, Lars Algebraic K-theory and trace invariants. (English summary) **2004d:19005**
— (*with* Madsen, Ib) On the K-theory of local fields. **2004k:19003**
Madsen, Ib *see* **Hesselholt, Lars, 2004k:19003**
Pak, G. K. *see* **Vostokov, S. V., 2004k:11183**
Vostokov, S. V. (*with* Pak, G. K.) Norm series in a multidimensional local field. (Russian. English and Russian summaries) **2004k:11183**

11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)

Chong, Wonyong (*with* Kim, Min-Soo; Kim, Taekyun; Son, Jin-Woo) On the p-adic spectral analysis and multiwavelet on $L^2(\mathbb{Q}_p^n)$. (English summary) **2004f:11137**
Kim, Min-Soo *see* **Chong, Wonyong et al., 2004f:11137**
Kim, Taekyun q-Volkenborn integration. (English summary) **2004f:11138**
— Non-Archimedean integration. (English summary) **2004f:11139**
— A note on the q-multiple zeta function. (English summary) **2004k:11185**
— *see also* **Chong, Wonyong et al., 2004f:11137**
Pak, Hong Kyung (*with* Rim, Seog Hoon) q-Bernoulli numbers and polynomials via an invariant p-adic q-integral on $\mathbb{Z}_p$. (English summary)
Rim, Seog Hoon *see* **Pak, Hong Kyung**
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Zuniga-Galindo, W. A. Fundamental solutions of pseudo-differential operators over p-adic fields. (English summary) **2004e:11137**

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Anashin, V. S. Uniformly distributed sequences of p-adic integers. (Russian. Russian summary) **2004a:11077**
Duru, Hülya Semi-strong U numbers in the p-adic field $\mathbf{Q}_p$. (English summary) **2004c:11125**
Furusho, Hidekazu Geometric and arithmetic subgroups of the Grothendieck-Teichmüller group. (English summary) **2004d:14022**
Kazhdan, David A. (*with* Polishchuk, Alexander) Generalization of a theorem of Waldspurger to nice representations. **2004g:11040**
Kim, Min-Soo (*with* Son, Jin-Woo) Bernoulli numbers in p-adic analysis. (English summary) **2004i:11012**
Kim, Taekyun Non-Archimedean q-integrals associated with multiple Changhee q-Bernoulli polynomials. (English summary) **2004h:33034**
Loeser, François (*with* Sebag, Julien) Motivic integration on smooth rigid varieties and invariants of degenerations. (English summary) **2004g:14026**
Oesterlé, Joseph A report on Pierre Colmez's theory of integration of 1-forms on p-adic varieties. **2004k:14033**
Polishchuk, Alexander *see* **Kazhdan, David A., 2004g:11040**
Sebag, Julien *see* **Loeser, François, 2004g:14026**
Son, Jin-Woo *see* **Kim, Min-Soo, 2004i:11012**

11S85 Other nonanalytic theory

Colmez, Pierre Espaces de Banach de dimension finie. (English and French summaries) [Finite-dimensional Banach Spaces] **2004b:11160**
Cui, Ming Gen *see* **Gao, Guang-hong et al.**
Gao, Guang-hong (*with* Cui, Ming Gen; Phil, Ung-chung) Calculus on the field $\mathbf{Q}_p$ of p-adic numbers. (English and Chinese summaries)
van Hamme, Lucien p-adic analysis and the calculus of finite differences. (English summary) **2004c:11225**
Ji, Chun-Gang A note on additive characters of locally compact fields. (English summary) **2004h:11099**
Khrennikov, A. N. (*with* Nilsson, Marcus) Behaviour of Hensel perturbations of p-adic monomial dynamical systems. (English and Russian summaries) **2004g:11110**
Nilsson, Marcus *see* **Khrennikov, A. N., 2004g:11110**
Phil, Ung-chung *see* **Gao, Guang-hong et al.**
Vâjâitu, Marian (*with* Zaharescu, Alexandru) Metric locally constant functions. (English summary) **2004d:11117**
Zaharescu, Alexandru *see* **Vâjâitu, Marian, 2004d:11117**

Items with secondary classifications in 11S85

Cui, Ming Gen (*with* Yao, Huan Min; Liu, Huan Ping) The affine frame in p-adic analysis. (English summary) **2004j:42032**
Dragović, Branko G. p-adic and adelic strings. (English summary) **2004g:81191**
Dremov, V. A. On a p-adic Julia set. (Russian) **2004k:37092**
Kaneko, Hiroshi[2] Time-inhomogeneous stochastic processes on the p-adic number field. (English summary) **2004e:60095**
Khrennikov, A. Yu. (*with* Radyna, Aliaksandr) Eigenvalues and invertibility of Parisi matrices. Ultrametric group point of view. (English summary) **2004m:82147**
Kochubeĭ, A. N. (*with* Sait-Ametov, Mustafa R.) Interaction measures on the space of distributions over the field of p-adic numbers. (English summary) **2004k:81211**
Liu, Huan Ping *see* **Cui, Ming Gen et al., 2004j:42032**
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Rivera-Letelier, Juan Espace hyperbolique p-adique et dynamique des fonctions rationnelles. (English summary) [p-adic hyperbolic space and dynamics of rational maps] **2004k:37090**
Sait-Ametov, Mustafa R. *see* **Kochubeĭ, A. N., 2004k:81211**
Yao, Huan Min *see* **Cui, Ming Gen et al., 2004j:42032**
Young, Paul Thomas Congruences for degenerate number sequences. (English summary) **2004e:11016**

11S90 Prehomogeneous vector spaces

Kable, Anthony C. (*with* Yukie, Akihiko) On the space of quadruples of quinary alternating forms. (English summary) **2004i:11139**
Loeser, François Motivic zeta functions for prehomogeneous vector spaces and castling transformations. (English summary) **2004h:11100**
Ukai, Kimitoshi b-functions of prehomogeneous vector spaces of Dynkin-Kostant type for exceptional groups. (English summary) **2004c:11226**
Yukie, Akihiko *see* **Kable, Anthony C., 2004i:11139**

Items with secondary classifications in 11S90

Kable, Anthony C. (*with* Yukie, Akihiko) The mean value of the product of class numbers of paired quadratic fields. II. (English summary) **2004g:11104a**
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Muro, Masakazu Singular invariant hyperfunctions on the square matrix space and the alternating matrix space. (English summary) **2004c:22015**
Nagura, Makoto (*with* Niitani, Tsuyoshi; Otani, Shin-ichi) A remark on prehomogeneous actions of linear algebraic groups. (English summary) **2004m:20088**
Niitani, Tsuyoshi *see* **Nagura, Makoto et al., 2004m:20088**
Otani, Shin-ichi *see* **Nagura, Makoto et al., 2004m:20088**
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11S99 None of the above, but in this section

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Alexandru, Victor (*with* Zaharescu, Alexandru) A transcendence criterion over p-adic fields. (English summary) **2004i:12009**
Ji, Chun-Gang A note on additive characters of locally compact fields. (English summary) **2004h:11099**
Kochubeĭ, A. N. Analysis and probability over infinite extensions of a local field. II. A multiplicative theory. (English summary) **2004j:60015**
Ta Thi Hoai An (*with* Wang, Julie Tzu-Yueh; Wong, Pit-Mann) Unique range sets and uniqueness polynomials in positive characteristic. **2004e:12003**
Vâjâitu, Marian (*with* Zaharescu, Alexandru) Metric locally constant functions. (English summary) **2004d:11117**
Wang, Julie Tzu-Yueh *see* **Ta Thi Hoai An et al., 2004e:12003**
Wong, Pit-Mann *see* **Ta Thi Hoai An et al., 2004e:12003**
Zaharescu, Alexandru Pair correlation of squares in p-adic fields. (English summary) **2004e:11079**
— *see also* **Vâjâitu, Marian, 2004d:11117** *and* **Alexandru, Victor, 2004i:12009**

11Txx Finite fields and commutative rings (number-theoretic aspects)

Wan, Zhe-Xian ★ Lectures on finite fields and Galois rings. **2004h:11101**

Items with secondary classifications in 11Txx

(Mullen, Gary L.) *see* **Finite fields with applications to coding theory, cryptography and related areas, 2004c:11003**
(Stichtenoth, Henning) *see* **Finite fields with applications to coding theory, cryptography and related areas, 2004c:11003**
(Tapia-Recillas, Horacio) *see* **Finite fields with applications to coding theory, cryptography and related areas, 2004c:11003**

Items listed otherwise than by author

Conference:
Finite Fields and Applications ★ Finite fields with applications to coding theory, cryptography and related areas. **2004c:11003**
Finite fields with applications to coding theory, cryptography and related areas ★ Finite fields with applications to coding theory, cryptography and related areas. **2004c:11003**
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11T06 Polynomials

Brent, Richard P. (*with* Larvala, Samuli; Zimmermann, Paul) A fast algorithm for testing reducibility of trinomials mod 2 and some new primitive trinomials of degree 3021377. (English summary) **2004b:11161**
Cattell, Kevin (*with* Miers, C. Robert; Ruskey, Frank; Sawada, Joe; Serra, Micaela) The number of irreducible polynomials over GF(2) with given trace and subtrace. (English summary) **2004i:11140**
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Cohen, Stephen D. (*with* Mills, Donald) Primitive polynomials with first and second coefficients prescribed. (English summary) **2004c:11227**
Conflitti, Alessandro On computation of the greatest common divisor of several polynomials over a finite field. (English summary) **2004h:11102**
Das, Pinaki (*with* Mullen, Gary L.) Value sets of polynomials over finite fields. (English summary) **2004h:11103**
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Fitzgerald, Robert W. A characterization of primitive polynomials over finite fields. (English summary) **2004b:11162**
— (*with* Yucas, Joseph L.) Irreducible polynomials over GF(2) with three prescribed coefficients. (English summary) **2004c:11228**
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Hales, Alfred W. (*with* Newhart, Donald W.) Irreducibles of tetranomial type. (English summary) **2004e:11139**
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— *see also* **Effinger, Gove W. et al., 2004h:11104**
Hou, Xiang-Dong Solution to a problem of S. Payne. (English summary) **2004h:11106**
Hu, Yong-Zhong Some results on singular permutation polynomial in several indeterminates over $\mathbf{Z}/m\mathbf{Z}$. (English summary) **2004c:11230**

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Meidl, Wilfried (*with* Winterhof, Arne) Linear complexity and polynomial degree of a function over a finite field. (English summary) **2004h:11107**
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Mills, Donald Existence of primitive polynomials with three coefficients prescribed. (English summary) **2004m:11199**
— *see also* **Cohen, Stephen D., 2004c:11227**
Mullen, Gary L. *see* **Das, Pinaki, 2004h:11103**; **Effinger, Gove W. et al., 2004h:11104**; **Hicks, Kenneth H. et al., 2004h:11105** *and* **Yucas, Joseph L., 2004i:11141**
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Sawada, Joe *see* **Cattell, Kevin et al., 2004i:11140**
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Winterhof, Arne *see* **Meidl, Wilfried, 2004h:11107**
Yu, Pei Quan Determining the number of irreducible polynomials with a given period over a field and constructing irreducible polynomials of high degree. (Chinese. English and Chinese summaries) **2004a:11128**
Yucas, Joseph L. (*with* Mullen, Gary L.) Irreducible polynomials over GF(2) with prescribed coefficients. (English summary) **2004i:11141**
— *see also* **Fitzgerald, Robert W., 2004c:11228**
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Zimmermann, Paul *see* **Brent, Richard P. et al., 2004b:11161**

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Brydon, Duncan Root-free exterior squares over finite fields. (English summary) **2004a:20081**
Car, Mireille Formes cubiques sur $\mathbb{F}_{2^n}[T]$. [Cubic forms over $\mathbb{F}_{2^n}[T]$] **2004m:11201**
Cohen, Stephen D. (*with* Huczynska, Sophie) Primitive free quartics with specified norm and trace. **2004k:11188**
— (*with* Huczynska, Sophie) The primitive normal basis theorem—without a computer. **2004b:11164**
— *see also* **Huczynska, Sophie, 2004d:11121**
Das, Pinaki The number of polynomials of a given degree over a finite field with value sets of a given cardinality. (English summary) **2004b:11167**
— Value sets of polynomials and the Cauchy Davenport theorem. (English summary) **2004g:11114**
Fan, Shu Qin (*with* Han, Wen Bao) Character sums over Galois rings and primitive polynomials over finite fields. (English summary) **2004i:11142**
— (*with* Han, Wen Bao) p-adic formal series and primitive polynomials over finite fields. (English summary) **2004i:11143**
Fleischmann, Peter (*with* Holder, Markus Chr.; Roelse, Peter) The black-box Niederreiter algorithm and its implementation over the binary field. (English summary) **2004b:11170**
Gallardo, Luis (*with* Vaserstein, Leonid; Wheland, E. R.) Berlekamp's discriminant and cubic equations in characteristic two. (English summary) **2004f:11135**
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Holder, Markus Chr. *see* **Fleischmann, Peter et al., 2004b:11170**
Huczynska, Sophie (*with* Cohen, Stephen D.) Primitive free cubics with specified norm and trace. (English summary) **2004d:11121**
— *see also* **Cohen, Stephen D., 2004b:11164** *and* **2004k:11188**
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Nishio, Hidenosuke Cellular automata with polynomials over finite fields. (English summary) (*see* **2004h:68006**)
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Shishkov, A. B. Exponential samples from linear recurrence sequences. (Russian. Russian summary) **2004a:11008**
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Vaserstein, Leonid *see* **Gallardo, Luis et al., 2004f:11135**
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Zhang, Qi Fan (*with* Peng, Guo-hua) A generalization of Newton's formula and its applications. (English summary) **2004m:11203**

11T22 Cyclotomy

Motose, Kaoru On values of cyclotomic polynomials. V. **2004k:11187**
Stein, Greg An alternate construction of the Berlekamp subalgebra. (English summary) **2004e:11140**

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Chen, Kejun Existence of $V_\lambda(m,t)$ vectors. (English summary) **2004e:05040**
von zur Gathen, Joachim (*with* Pappalardi, Francesco) Density estimates related to Gauß periods. (English summary) **2004c:11175**
Pappalardi, Francesco *see* **von zur Gathen, Joachim, 2004c:11175**

11T23 Exponential sums

Banks, William D. (*with* Harcharras, Asma; Shparlinski, Igor E.) Short Kloosterman sums for polynomials over finite fields. (English summary) **2004f:11140**
Harcharras, Asma *see* **Banks, William D. et al., 2004f:11140**
Helleseth, Tor (*with* Zinov′ev, V. A.) On a new identity for Kloosterman sums and nonlinear system of equations over finite fields of characteristic 2. (English summary) **2004h:11108**
Li, Hai Long² (*with* Zhang, Wen Peng) On the special solutions of an equation in a finite field. (English summary) **2004b:11163**
Scholten, Jasper (*with* Zhu, Hui June) Slope estimates of Artin-Schreier curves. (English summary) **2004f:11141**
Shin, Dong-Joon (*with* Sung, Wonjin) A new Kloosterman sum identity over $\mathbf{F}_{2^m}$ for odd m. (English summary) **2004a:11129**
Shparlinski, Igor E. Exponential sums in coding theory, cryptology and algorithms. **2004g:11112**
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Voloch, José Felipe (*with* Walker, Judy L.) Homogeneous weights and exponential sums. (English summary) **2004d:11119**
Walker, Judy L. *see* **Voloch, José Felipe, 2004d:11119**
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Banks, William D. (*with* Shparlinski, Igor E.) Average normalisations of elliptic curves. (English summary) **2004c:11105**
Blache, Régis Exponential sums over lifts of points. (English summary) **2004m:11123**
Bourgain, Jean (*with* Konyagin, Sergei) Estimates for the number of sums and products and for exponential sums over subgroups in fields of prime order. (English and French summaries) **2004g:11067**
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Chinen, Koji On some properties of the hyper-Kloosterman codes. (English summary) **2004h:11109**
Codenotti, Bruno (*with* Shparlinski, Igor E.; Winterhof, Arne) On the hardness of approximating the permanent of structured matrices. (English summary) **2004m:15010**
Everest, Graham (*with* van der Poorten, Alfred J.; Shparlinski, Igor E.; Ward, Thomas B.) ★ Recurrence sequences. **2004c:11015**
Férard, Eric Weight of duals of BCH codes and exponential sums. (English summary) **2004a:94072**
Green, D. H. (*with* Green, Peter Richard) Polyphase power-residue sequences. (English summary) **2004e:94028**
Green, Peter Richard *see* **Green, D. H., 2004e:94028**
Hsu, Chih-Nung On polynomial reciprocity law. (English summary) **2004c:11234**
Khan, Mizan R. (*with* Shparlinski, Igor E.) On the maximal difference between an element and its inverse modulo n. (English summary) **2004k:11006**
Kim, Dae San *see* **Chae, Hi-joon, 2004k:11132**
Konyagin, Sergei *see* **Bourgain, Jean, 2004g:11067**
Linial, Nathan (*with* Samorodnitsky, Alex) Linear codes and character sums. (English summary) **2004j:94041**
Mercier, Dany-Jack Two codes related to Hermitian forms. (English summary) **2004a:11132**
Nguyen, Phong Q. (*with* Shparlinski, Igor E.) The insecurity of the elliptic curve digital signature algorithm with partially known nonces. (English summary) **2004h:94047**
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Shparlinski, Igor E. Exponential sums and lattice reduction: applications to cryptography. (English summary) **2004h:94048**
— *see also* **Everest, Graham et al., 2004c:11015**; **Banks, William D., 2004c:11105**; **Nguyen, Phong Q., 2004h:94047**; **Khan, Mizan R., 2004k:11006** *and* **Codenotti, Bruno et al., 2004m:15010**
Sperber, Steven *see* **Adolphson, Alan, 2004k:11135**
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Winterhof, Arne *see* **Niederreiter, Harald, 2004k:11138** *and* **Codenotti, Bruno et al., 2004m:15010**

11T24 Other character sums and Gauss sums

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Gangopadhyay, Sugata A note on character sums with polynomial arguments. (English summary) **2004f:11142**
Han, Wen Bao *see* **Fan, Shu Qin, 2004i:11142**
Kazhdan, David A. (*with* Polishchuk, Alexander) Fourier transform over finite field and identities between Gauss sums. (English summary) **2004d:11120**
Lauder, Alan G. B. Computing zeta functions of Kummer curves via multiplicative characters. (English summary) **2004g:11113**
Mockenhaupt, Gerd (*with* Tao, Terence C.) Restriction and Kakeya phenomena for finite fields. (English summary) **2004m:11200**
Polishchuk, Alexander *see* **Kazhdan, David A., 2004d:11120**
Tao, Terence C. *see* **Mockenhaupt, Gerd, 2004m:11200**

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Atsumi, Tsuyoshi Partial difference sets and Jacobi sums. (English summary)
Baulina, Yu. N. On the number of solutions of the equation $(x_1 + \cdots + x_n)^2 = ax_1 \cdots x_n$ in the finite field $\mathbb{F}_q$ for $\gcd(n-2, q-1) = 7$ and for $\gcd(n-2, q-1) = 14$. (Russian) **2004j:11034**
— On the problem of explicit evaluation of the number of solutions of the equation $a_1x_1^2 + \cdots + a_nx_n^2 = bx_1 \cdots x_n$ in a finite field. **2004e:11031**
— On exact formulas for the number of solutions of the equation $(x_1 + \cdots + x_n)^2 = ax_1 \cdots x_n$ in a finite field. (Russian. Russian summary) **2004f:11028**
Chandler, David B. (*with* Xiang, Qing) Cyclic relative difference sets and their p-ranks. (English summary) **2004j:05031**
— (*with* Xiang, Qing) The invariant factors of some cyclic difference sets. (English summary) **2004c:05034**
Choi, Geumlan (*with* Zaharescu, Alexandru) Additive patterns in a multiplicative group in a finite field. (English summary) **2004c:11232**
Cohen, Stephen D. (*with* Huczynska, Sophie) Primitive free quartics with specified norm and trace. **2004k:11188**
— The orders of related elements of a finite field. (English summary) **2004k:11189**
— *see also* **Huczynska, Sophie, 2004d:11121**
Fan, Shu Qin (*with* Han, Wen Bao) p-adic formal series and primitive polynomials over finite fields. (English summary) **2004i:11143**
Gurak, S. Gauss and Eisenstein sums of order twelve. (English summary) **2004e:11087**
Han, Wen Bao *see* **Fan, Shu Qin, 2004i:11143**
Huczynska, Sophie (*with* Cohen, Stephen D.) Primitive free cubics with specified norm and trace. (English summary) **2004d:11121**
— *see also* **Cohen, Stephen D., 2004k:11188**
Meijer, Peter B. L. (*with* van der Vlugt, M.) The evaluation of Gauss sums for characters of 2-power order. (English summary) **2004b:11121**
Mortenson, Eric A supercongruence conjecture of Rodriguez-Villegas for a certain truncated hypergeometric function. (English summary) **2004e:11089**
Niederreiter, Harald (*with* Shparlinski, Igor E.) On the distribution of power residues and primitive elements in some nonlinear recurring sequences. (English summary) **2004m:11130**
Peng, Guo-hua *see* **Zhang, Qi Fan, 2004m:11203**
Player, Kevin J. *see* **Arasu, K. T., 2004c:05039**
Shparlinski, Igor E. *see* **Niederreiter, Harald, 2004m:11130**
van der Vlugt, M. *see* **Meijer, Peter B. L., 2004b:11121**
Xiang, Qing *see* **Chandler, David B., 2004c:05034** *and* **2004j:05031**
Zaharescu, Alexandru *see* **Choi, Geumlan, 2004c:11232**
Zhang, Qi Fan (*with* Peng, Guo-hua) A generalization of Newton's formula and its applications. (English summary) **2004m:11203**

11T30 Structure theory

Bakshi, Gurmeet K. (*with* Raka, Madhu) Minimal cyclic codes of length p^nq. (English summary) **2004f:11143**
Brent, Richard P. (*with* Gao, Shuhong; Lauder, Alan G. B.) Random Krylov spaces over finite fields. (English summary) **2004c:11231**
Chen, Guo Hui An equation in a finite field and its asymptotic formula. (Chinese. English and Chinese summaries)
Choi, Geumlan (*with* Zaharescu, Alexandru) Additive patterns in a multiplicative group in a finite field. (English summary) **2004c:11232**
Cohen, Stephen D. (*with* Huczynska, Sophie) Primitive free quartics with specified norm and trace. **2004k:11188**
— (*with* Huczynska, Sophie) The primitive normal basis theorem—without a computer. **2004b:11164**
— The orders of related elements of a finite field. (English summary) **2004k:11189**
— *see also* **Huczynska, Sophie, 2004d:11121**
Das, Pinaki Value sets of polynomials and the Cauchy Davenport theorem. (English summary) **2004g:11114**
Gao, Shuhong *see* **Brent, Richard P. et al., 2004c:11231**
Hachenberger, Dirk Generators for primary closures of Galois fields. **2004a:11130**
Huczynska, Sophie (*with* Cohen, Stephen D.) Primitive free cubics with specified norm and trace. (English summary) **2004d:11121**
— *see also* **Cohen, Stephen D., 2004b:11164** *and* **2004k:11188**
Huo, Jia Jia (*with* Zhang, Qi Fan) The primitive root of the finite field $\mathbf{F}_{p^2}$. (Chinese. English and Chinese summaries) **2004d:11122**
İlhan, S. (*with* Tutalar, H. İ.) On finite perfect field Z_p. (English summary)
Lauder, Alan G. B. *see* **Brent, Richard P. et al., 2004c:11231**
Li, Chao *see* **Liu, Duan Sen et al.**
Liu, Duan Sen (*with* Yang, Cun Dian; Li, Chao) Properties of the generators in a finite field. (Chinese. English and Chinese summaries)
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Niederreiter, Harald (*with* Winterhof, Arne) On the distribution of points in orbits of $\mathrm{PGL}(2, q)$ acting on $\mathrm{GF}(q^n)$. (English summary) **2004k:11190**
Petrenko, B. V. On the product of two primitive elements of maximal subfields of a finite field. (English summary) **2004b:11165**
Raka, Madhu *see* **Bakshi, Gurmeet K., 2004f:11143**
Scheicher, Klaus (*with* Thuswaldner, Jörg M.) Digit systems in polynomial rings over finite fields. (English summary) **2004a:11131**
Sun, Qi An algorithm for the multiplication table of the normal basis over finite fields. (Chinese. English and Chinese summaries)
Thamir, Alzahary Waring's problem in finite fields. (Chinese. English and Chinese summaries) **2004b:11166**
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Tutalar, H. İ. *see* **İlhan, S.**
Waterhouse, William C. How many vectors generate maximal cyclic subspaces? (English summary) **2004c:11233**
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Zaharescu, Alexandru *see* **Choi, Geumlan, 2004c:11232**
Zhang, Qi Fan *see* **Huo, Jia Jia, 2004d:11122**

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Cohen, Stephen D. (*with* Mills, Donald) Primitive polynomials with first and second coefficients prescribed. (English summary) **2004c:11227**
Fan, Shu Qin (*with* Han, Wen Bao) Character sums over Galois rings and primitive polynomials over finite fields. (English summary) **2004i:11142**
Hachenberger, Dirk Characterizing normal bases via the trace map. (English summary) **2004i:12003**
Han, Wen Bao *see* **Fan, Shu Qin, 2004i:11142**
Kirichenko, V. V. (*with* Novikov, B. V.; Petravchuk, Anatoliĭ P.) Finite fields. **2004c:12003**
Mills, Donald *see* **Cohen, Stephen D., 2004c:11227**
Novikov, B. V. *see* **Kirichenko, V. V. et al., 2004c:12003**
Petravchuk, Anatoliĭ P. *see* **Kirichenko, V. V. et al., 2004c:12003**
Rolland, Robert *see* **Ballet, Stéphane, 2004i:11148**

11T55 Arithmetic theory of polynomial rings over finite fields

Car, Mireille Formes cubiques sur $\mathbb{F}_{2^k}[T]$. [Cubic forms over $\mathbb{F}_{2^k}[T]$] **2004m:11201**
Das, Pinaki The number of polynomials of a given degree over a finite field with value sets of a given cardinality. (English summary) **2004b:11167**
Fan, Shu Qin (*with* Han, Wen Bao) p-adic formal series and primitive polynomials over finite fields. (English summary) **2004i:11143**
Han, Wen Bao *see* **Fan, Shu Qin, 2004i:11143**
Hsu, Chih-Nung On polynomial reciprocity law. (English summary) **2004c:11234**
Peng, Guo-hua *see* **Zhang, Qi Fan, 2004m:11203**
Silverman, Joseph H. Common divisors of $a^n - 1$ and $b^n - 1$ over function fields. (English summary) **2004m:11202**
Zhang, Qi Fan On an open problem of Niederreiter. (English summary) **2004b:11168**
— (*with* Peng, Guo-hua) A generalization of Newton's formula and its applications. (English summary) **2004m:11203**

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Cattell, Kevin (*with* Miers, C. Robert; Ruskey, Frank; Sawada, Joe; Serra, Micaela) The number of irreducible polynomials over GF(2) with given trace and subtrace. (English summary) **2004i:11140**
McLaughlin, Philip B., Jr. New frameworks for Montgomery's modular multiplication method. (English summary) **2004j:11149**
Miers, C. Robert *see* **Cattell, Kevin et al., 2004i:11140**
Ruskey, Frank *see* **Cattell, Kevin et al., 2004i:11140**
Sawada, Joe *see* **Cattell, Kevin et al., 2004i:11140**
Serra, Micaela *see* **Cattell, Kevin et al., 2004i:11140**

11T60 Finite upper half-planes

DeDeo, M. R. (*with* Martínez, María G.; Medrano, A.; Minei, Marvin; Stark, Harold M.; Terras, Audrey) Spectra of Heisenberg graphs over finite rings. (English summary) **2004i:11144**
Martínez, María G. *see* **DeDeo, M. R. et al., 2004i:11144**
Medrano, A. *see* **DeDeo, M. R. et al., 2004i:11144**
Minei, Marvin *see* **DeDeo, M. R. et al., 2004i:11144**
Stark, Harold M. *see* **DeDeo, M. R. et al., 2004i:11144**
Terras, Audrey Finite quantum chaos. **2004e:11141**
— *see also* **DeDeo, M. R. et al., 2004i:11144**

11T71 Algebraic coding theory; cryptography

Chang, Fei-Hwang *see* **Wang, Lih-Chung, 2004i:11146**
Chinen, Koji On some properties of the hyper-Kloosterman codes. (English summary) **2004h:11109**
Dorfer, Gerhard (*with* Maharaj, Hiren) Generalized AG codes and generalized duality. (English summary) **2004d:11123**
Hu, Lei (*with* Pei, Dingyi) Generator polynomials of characteristic ideal of maximal periodic arrays over Galois rings. (English summary) **2004m:11204**
Hühnlein, Detlef (*with* Jacobson, Michael J., Jr.; Weber, Damian) Towards practical non-interactive public-key cryptosystems using non-maximal imaginary quadratic orders. (English summary) **2004i:11145**
Jacobson, Michael J., Jr. *see* **Hühnlein, Detlef et al., 2004i:11145**
Kobayashi, Zenji Digital sum problems for the Gray code representation of natural numbers. (English summary) **2004g:11116**
Lange, Tanja (*with* Winterhof, Arne) Interpolation of the discrete logarithm in $\mathbf{F}_q$ by Boolean functions and by polynomials in several variables modulo a divisor of $q - 1$. (English summary) **2004e:11142**
Maharaj, Hiren *see* **Dorfer, Gerhard, 2004d:11123**
Mercier, Dany-Jack Two codes related to Hermitian forms. (English summary) **2004a:11132**
Olshevsky, Vadim (*with* Shokrollahi, Mohammad Amin) A displacement approach to decoding algebraic codes. (English summary) **2004g:11117**
Pei, Dingyi *see* **Hu, Lei, 2004m:11204**
Peralta, René Elliptic curve factorization using a "partially oblivious" function. (English summary) **2004b:11169**
Shokrollahi, Mohammad Amin *see* **Olshevsky, Vadim, 2004g:11117**
Wagstaff, Samuel S., Jr. ★ Cryptanalysis of number theoretic ciphers. **2004f:11144**
Wang, Lih-Chung (*with* Chang, Fei-Hwang) Square-free Q_k components in TTM. (English summary) **2004i:11146**
Weber, Damian *see* **Hühnlein, Detlef et al., 2004i:11145**

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Yu, Xiuyuan An approximate expression related with RSA fixed points. (English summary) **2004m:11205**

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de Andrade, Antonio Aparecido (*with* Palazzo, R., Jr.) Hamming and Reed-Solomon codes over certain rings. (English summary) **2004i:94050**
— (*with* Interlando, José Carmelo; Palazzo, R., Jr.) Alternant and BCH codes over certain rings. (English summary) **2004k:94078**
Bakshi, Gurmeet K. (*with* Raka, Madhu) Minimal cyclic codes of length $p^n q$. (English summary) **2004f:11143**
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11Uxx Connections with logic

11U05 Decidability [see also 03B25]

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11U09 Model theory [see also 03Cxx]

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11Yxx Computational number theory [see also 11–04]

11Y05 Factorization

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11Y11 Primality

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11Y50 Computer solution of Diophantine equations

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11Y55 Calculation of integer sequences

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11Y60 Evaluation of constants

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11Y65 Continued fraction calculations

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11Y70 Values of arithmetic functions; tables

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Allouche, Jean-Paul (*with* Shallit, Jeffrey) ★ Automatic sequences. **2004k:11028**
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— (*with* Rosu, Haret C.) Cyclotomy and Ramanujan sums in quantum phase locking. (English summary) **2004h:81283**
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12–XX Field theory and polynomials

12–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 12–00

(Mikhalëv, A. V.) *see* **Handbook: Algebra, 2004c:00001**
(Pilz, Günter F.) *see* **Handbook: Algebra, 2004c:00001**

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Algebra ★ The concise handbook of algebra. **2004c:00001**

12–01 Instructional exposition (textbooks, tutorial papers, etc.)

Snaith, Victor P. ★ Groups, rings and Galois theory. **2004i:12001**

Items with secondary classifications in 12–01

Bourbaki, Nicolas ★ Algebra II. Chapters 4–7.
(Cohn, P. M.) *see* **Bourbaki, Nicolas**
Dyke, P. P. G. ★ Managing mathematical projects—with success!
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Postnikov, M. M. ★ Foundations of Galois theory. **2004m:12004**
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12–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 12–03

(Abel, Niels Henrik) *see* **Pešić, P. D., 2004e:01034**
Pešić, P. D. ★ Abel's proof. **2004e:01034**

12–06 Proceedings, conferences, collections, etc.

(Kuhlmann, Franz-Viktor) *see* **Valuation theory and its applications, 2004g:12001**
(Kuhlmann, Salma) *see* **Valuation theory and its applications, 2004g:12001**
(Marshall, Murray A.) *see* **Valuation theory and its applications, 2004g:12001**

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Valuation Theory ★ Valuation theory and its applications. Vol. II. **2004g:12001**
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(Bajaj, Chanderjit L.) *see* **Algebra, arithmetic and geometry with applications, 2004j:00030**
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From combinatorics to dynamical systems ★ From combinatorics to dynamical systems. **2004j:00033**
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12Dxx Real and complex fields

12D05 Polynomials: factorization

Karcanias, Nicos (*with* Mitrouli, Marilena) Normal factorisation of polynomials and computational issues. (English summary) **2004e:12001**
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12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15.}

Acosta, Daniel J. Newton's rule of signs for imaginary roots.
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Derksen, Harm The fundamental theorem of algebra and linear algebra. **2004g:12002**
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Kostlan, Eric On the expected number of real roots of a system of random polynomial equations. (English summary) **2004k:60150**
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Longobardi, Patrizia (*with* Maj, Mercede; Rhemtulla, Akbar H.) On solvable R^*-groups. (English summary) **2004g:20054**
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Sottile, Frank Enumerative real algebraic geometry. **2004j:14065**

12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [see also 11Exx]

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12Exx General field theory

12E05 Polynomials (irreducibility, etc.)

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Khanduja, Sudesh K. *see* **Bhatia, Saurabh, 2004d:12002**
Nowicki, Andrzej Władysław (*with* Spodzieja, Stanisław) Polynomial imaginary decompositions for finite extensions of fields of characteristic zero. (English summary) **2004i:12002**
Spodzieja, Stanisław *see* **Nowicki, Andrzej Władysław, 2004i:12002**
Ta Thi Hoai An (*with* Wang, Julie Tzu-Yueh; Wong, Pit-Mann) Unique range sets and uniqueness polynomials in positive characteristic. **2004e:12003**
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Dvornicich, Roberto (*with* Tung, Shih Ping; Zannier, Umberto M.) On polynomials taking small values at integral arguments. II. **2004c:11029**
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Girstmair, Kurt Corrigendum to: "Linear relations between roots of polynomials" [Acta Arith. **89** (1999), no. 1, 53–96].
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12E10 Special polynomials

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12E25 Hilbertian fields; Hilbert's irreducibility theorem

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12Fxx Field extensions

12F05 Algebraic extensions

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12F12 Inverse Galois theory

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12F20 Transcendental extensions

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Derome, Geoffroy Descente algébriquement close. (English and French summaries) [Algebraically closed descent] **2004f:14003**
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12Gxx Homological methods (field theory)

12G05 Galois cohomology [see also 14F22, 16H05, 16K50]

Aljouiee, Abdulla On the Brauer monoid of S_3. (English summary)
Cegarra, Antonio M. (*with* Garzón, Antonio R.) Equivariant group cohomology and Brauer group. (English summary) **2004i:12007**
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Koya, Yoshihiro On a duality of Galois cohomology and the strict cohomological dimension of higher local fields. (English summary) **2004g:11107**
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12G10 Cohomological dimension

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12Hxx Differential and difference algebra

12H05 Differential algebra [see also 13Nxx]

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Buium, Alexandru (*with* Zimmerman, Ken) Homogeneous p-differential polynomials. **2004m:12009**
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13A18 Valuations and their generalizations [see also 12J20]

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Micale, Vincenzo *see* **D'Anna, Marco, 2004m:13011**
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13A30 Associated graded rings of ideals (Rees ring, form ring), analytic spread and related topics

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Heinzer, William J. (*with* Kim, Mee-Kyoung) Properties of the fiber cone of ideals in local rings. (English summary) **2004e:13006**
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Kim, Mee-Kyoung *see* **Heinzer, William J., 2004e:13006**
Martínez-Bernal, José *see* **Escobar, Cesar A. et al., 2004h:13007**
Polini, Claudia *see* **Corso, Alberto et al., 2004h:13006** *and* **2004k:13006**
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— (*with* Ulrich, Bernd; Vasconcelos, Wolmer V.) Rees algebras of modules. **2004j:13005**
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— (*with* Sakurai, Hideto) The equality $I^2 = QI$ in Buchsbaum rings. (English summary) **2004m:13061**
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West, Eric M. Primes associated to multigraded modules. (English summary) **2004m:13004**

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13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p; tight closure [see also 13B22]

Aberbach, Ian M. (*with* Leuschke, Graham J.) The F-signature and strong F-regularity. (English summary) **2004b:13003**
Blickle, Manuel The D-module structure of $R[F]$-modules. (English summary) **2004m:13016**
Brenner, Holger Tight closure and projective bundles. (English summary) **2004h:13008**
— How to rescue solid closure. (English summary) **2004e:13007**
— Slopes of vector bundles on projective curves and applications to tight closure problems. (English summary) **2004m:13017**
Enescu, Florian Applications of pseudocanonical covers to tight closure problems. (English summary) **2004b:13004**
— Strong test modules and multiplier ideals. (English summary) **2004j:13006**
— F-injective rings and F-stable primes. (English summary) **2004f:13003**
Hara, Nobuo (*with* Yoshida, Ken-ichi[2]) A generalization of tight closure and multiplier ideals. (English summary) **2004i:13003**
Hashimoto, Mitsuyasu Surjectivity of multiplication and F-regularity of multigraded rings. **2004i:13004**
Hochster, Melvin (*with* Vélez, Juan D.) Diamond closure. (English summary) **2004m:13018**
Huneke, Craig (*with* Vraciu, Adela) Special tight closure. (English summary) **2004e:13008**
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McDermott, Moira A. Test ideals in diagonal hypersurface rings. II. (English summary) **2004d:13004**
Schoutens, Hans Non-standard tight closure for affine $\mathbb{C}$-algebras. (English summary) **2004m:13019**
Vélez, Juan D. *see* **Hochster, Melvin, 2004m:13018**
Vraciu, Adela Tight closure and linkage classes in Gorenstein rings. (English summary) **2004k:13008**
— Tightly closed ideals of small type. (English summary) **2004j:13007**
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— (*with* Narváez Macarro, Luis) Conservation of the Noetherianity by perfect transcendental field extensions. (English summary) **2004m:13047**
Hanes, Douglas Notes on the Hilbert-Kunz function. (English summary) **2004e:13024**
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Hochster, Melvin Big Cohen-Macaulay algebras in dimension three via Heitmann's theorem. **2004c:13011**
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Nossem, Nicole Adjunction of pth roots to Dedekind domains and injective modules. (English summary) **2004c:13010**
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13A50 Actions of groups on commutative rings; invariant theory [see also 14L24]

Arzhantsev, Ivan V. Algebras with finitely generated invariant subalgebras. (English and French summaries) **2004e:13009**
Bayer, Thomas On the intersection of invariant rings. (English summary) **2004a:13003**
Chipalkatti, Jaydeep V. On equations defining coincident root loci. (English summary) **2004h:13009**
Chuai, Jianjun Two-dimensional vector invariant rings of abelian p-groups. (English summary) **2004e:13010**
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Durán Díaz, R. (*with* Muñoz Masqué, Jaime; Peinado Domínguez, A.) Classifying quadratic maps from plane to plane. (English summary) **2004b:13005**
Fleischmann, Peter Invariants of finite groups over finite fields: recent progress and new conjectures. (English summary) **2004e:13011**
— (*with* Shank, R. James) The relative trace ideal and the depth of modular rings of invariants. (English summary) **2004e:13012**
Gordeev, Nikolai (*with* Kemper, Gregor) On the branch locus of quotients by finite groups and the depth of the algebra of invariants. (English summary) **2004h:13010**
Kemper, Gregor Computing invariants of reductive groups in positive characteristic. (English summary) **2004b:13006**
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Kuttler, Jochen (*with* Wallach, Nolan R.) Representations of SL_2 and the distribution of points in $\mathbb{P}^n$. **2004m:13021**
Kuz'min, S. G. (*with* Zubkov, A. N.) Rings of invariants of 2×2 matrices in positive characteristic. (English summary) **2004f:13004**
Lehrer, Gustav I. (*with* Michel, Jean Christian Marie) Invariant theory and eigenspaces for unitary reflection groups. (English and French summaries) **2004d:13005**
Lin, Tzu-Chun ★ Über Poincarédualitätsalgebra in der Invariantentheorie. (German) [On Poincaré duality algebras in invariant theory] **2004i:13005**
Michel, Jean Christian Marie *see* **Lehrer, Gustav I., 2004d:13005**
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Winkelmann, Jörg Invariant rings and quasiaffine quotients. (English summary) **2004d:13006**
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Briand, Emmanuel[2] (*with* Luque, Jean-Gabriel; Thibon, Jean-Yves) A complete set of covariants of the four qubit system. (English summary) **2004h:81049**
(Campbell, H. E. A. Eddy) *see* **Invariant theory in all characteristics, 2004m:13002**
Dhooghe, Paul F. Multilocal invariants for the classical groups. (English summary) **2004h:53020**
Dolgachev, Igor ★ Lectures on invariant theory. **2004g:14051**
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Etingof, Pavel I. (*with* Ginzburg, V. A.) On m-quasi-invariants of a Coxeter group. (English summary) **2004g:20052**
Feĭgin, M. V. (*with* Veselov, A. P.) Quasi-invariants and quantum integrals of the deformed Calogero-Moser systems. **2004m:81109**
Garrity, Thomas (*with* Grossman, Zachary) On relations of invariants for vector-valued forms. (English summary) **2004k:15056**
Ginzburg, V. A. *see* **Etingof, Pavel I., 2004g:20052**
Gordon, Iain On the quotient ring by diagonal invariants. (English summary) **2004f:20075**
Grosshans, Frank D. The work of Gian-Carlo Rota on invariant theory. (English summary) **2004k:15057**
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Hersh, Patricia A partitioning and related properties for the quotient complex $\Delta(B_{lm})/S_l \wr S_m$. (English summary) **2004a:05156**
Luque, Jean-Gabriel *see* **Briand, Emmanuel[2] et al., 2004h:81049**
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Naoum, Adil G. (*with* Al-Aubaidy, W. K.) Actions of finite groups on commutative rings. I. (English summary) **2004e:13025**
Pengelley, David J. (*with* Williams, Frank) The global structure of odd-primary Dickson algebras as algebras over the Steenrod algebra. (English summary) **2004m:55025**
Pervushin, D. D. On the coverings of the nilpotent orbits of fourth-order matrix pencils. (Russian. Russian summary) **2004b:14085**
(Reiner, Victor) *see* **Hersh, Patricia, 2004a:05156**
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Shvartsman, O. V. On an example of D. Mumford and the factoriality of algebras of automorphic forms for plane groups of genus zero. (Russian) **2004c:14003**
Skrzyński, Marcin Irreducible algebraic sets of matrices with dominant restriction of the characteristic map. (English summary) **2004c:14094**
Thibon, Jean-Yves *see* **Briand, Emmanuel[2] et al., 2004h:81049**
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Veselov, A. P. *see* **Feĭgin, M. V., 2004m:81109**
(Wehlau, David L.) *see* **Invariant theory in all characteristics, 2004m:13002**
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13A99 None of the above, but in this section

Akbari-Feyzaabaadi, S. (*with* Mohammadian, A.) On the zero-divisor graph of a commutative ring. (English summary) **2004k:13009**
Anderson, D. D. (*with* Camillo, Victor) Annihilator-semigroup rings. (English summary) **2004g:13002**
Balkanay, Erol *see* **Koç, Ayten**
Banerjee, Baldev (*with* Basnet, Dhiren Kr.) Intuitionistic fuzzy subrings and ideals. (English summary) **2004a:13004**
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Bruns, Winfried (*with* Gubeladze, Joseph) Polytopal linear algebra. (English summary) **2004b:13007**
Camillo, Victor *see* **Anderson, D. D., 2004g:13002**
DeMeyer, Frank (*with* Schneider, Kim) Automorphisms and zero divisor graphs of commutative rings. (English summary) **2004k:13010**
Echi, Othman Quasi-homeomorphisms, Goldspectral spaces and Jacspectral spaces. (English and Italian summaries) **2004h:13011**
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Karim, Driss Nagata rings and directed unions of Artinian subrings. (English summary)
Kim, Hwankoo (*with* Kim, Myeong Og; Park, Sung-Mi; Park, Young Soo) Fuzzy star-operations on an integral domain. (English summary) **2004d:13007**
Kim, Myeong Og *see* **Kim, Hwankoo et al., 2004d:13007**
Koç, Ayten (*with* Balkanay, Erol) On θ-Euclidean L-fuzzy ideals of rings. (English summary)
Mohammadian, A. *see* **Akbari-Feyzaabaadi, S., 2004k:13009**
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Erez, Y. *see* **Arad, Zvi et al.**, **2004e:20019**
Estaji, A. A. (*with* Karamzadeh, O. A. S.) On $C(X)$ modulo its socle. (English summary) **2004c:54016**
Karamzadeh, O. A. S. *see* **Estaji, A. A.**, **2004c:54016**
Karim, Driss Zero-dimensionality and Serre rings. (English summary)
Krasnov, Yakov Commutative algebras in Clifford analysis. (English summary) **2004k:30121**
Muzychuk, Mikhail *see* **Arad, Zvi et al.**, **2004e:20019**
Olberding, Bruce A geometric setting for some properties of torsion-free modules. **2004e:14003**

13Bxx Ring extensions and related topics

13B02 Extension theory

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Ayache, Ahmed Minimal overrings of an integrally closed domain. (English summary) **2004k:13012**
Baba, Kiyoshi (*with* Yoshida, Ken-ichi[1]) The extension $R[\beta, \beta^{-1}]$ of a linear fractional transform of an anti-integral element. (English summary) **2004h:13012**
— (*with* Yoshida, Ken-ichi[1]) A condition for $R[\alpha, \beta] = R[\alpha, \alpha^{-1}]$ with a linear fractional transform β of an anti-integral element α. (English summary)
— (*with* Yoshida, Ken-ichi[1]) Criteria for anti-integrality and super-primitiveness. (English summary)
— (*with* Yoshida, Ken-ichi[1]) Anti-integral extensions $R[\alpha]/R$ and invertibility of $\alpha^n - a$. (English summary) **2004j:13008**
Chang, Gyu Whan *see* **Anderson, David F. et al.**, **2004k:13011**
Dobbs, David E. G-domain pairs. (English summary) **2004k:13013**
— On chains of overrings of an integral domain. (English summary) **2004j:13009**
Heinzer, William J. (*with* Roitman, Moshe) Well-centered overrings of an integral domain. (English summary) **2004j:13010**
Miri, A. *see* **Oukessou, M.**, **2004j:13011**
Oda, Susumu (*with* Yoshida, Ken-ichi[1]) On reciprocal extensions $R[\alpha + \alpha^{-1}]$ of R. (English summary) **2004i:13007**
Oukessou, M. (*with* Miri, A.) Sur les suranneaux minimaux. II. (English summary) [On minimal overrings. II] **2004j:13011**
Papick, Ira J. Affine pairs. (English summary) (*see* **2004k:16001**)
Park, Jeanam *see* **Anderson, David F. et al.**, **2004k:13011**
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Wang, Fang Gui On induced operations and UMT-domains. (English and Chinese summaries)
Yoshida, Ken-ichi[1] *see* **Baba, Kiyoshi**, **2004h:13012**; **2004j:13008** *and* **Oda, Susumu**, **2004i:13007**

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Andruszkiewicz, R. R. Generalized iterated maximal essential extensions of rings. (English summary) **2004g:16029**
Benhissi, Ali On radical operations. **2004k:13002**
Coykendall, Jim (*with* Dobbs, David E.) Survival-pairs of commutative rings have the lying-over property. (English summary) **2004d:13009**
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Gilmer, Robert Some finiteness conditions on the set of overrings of an integral domain. (English summary) **2004d:13030**
Naoum, Adil G. (*with* Al-Aubaidy, W. K.) Actions of finite groups on commutative rings. I. (English summary) **2004e:13025**

13B05 Galois theory

Items with secondary classifications in 13B05

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Jensen, Christian U. (*with* Ledet, Arne; Yui, Noriko) ★ Generic polynomials. **2004d:12007**
Ledet, Arne *see* **Jensen, Christian U. et al.**, **2004d:12007**
Yui, Noriko *see* **Jensen, Christian U. et al.**, **2004d:12007**

13B10 Morphisms

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Items with secondary classifications in 13B10

Dutta, Amartya Kumar Some results on affine fibrations. (English summary) **2004h:14069**
van den Essen, Arno (*with* Peretz, Ronen) Polynomial automorphisms and invariants. **2004j:14068**
Hetzel, Andrew J. Generalized going-up homomorphisms of commutative rings. (English summary) **2004m:13027**
Peretz, Ronen *see* **van den Essen, Arno**, **2004j:14068**

13B21 Integral dependence

Items with secondary classifications in 13B21

Bazzoni, S. (*with* Salce, Luigi) Almost perfect domains. (English summary) **2004b:13024**
Corso, Alberto (*with* Polini, Claudia; Ulrich, Bernd) Core of projective dimension one modules. (English summary) **2004h:13006**
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Dobbs, David E. (*with* Picavet, Gabriel) Weak Baer going-down rings. (English summary) **2004i:13009**
— *see also* **Coykendall, Jim**, **2004d:13009**
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Polini, Claudia *see* **Corso, Alberto et al.**, **2004h:13006**
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13B22 Integral closure of rings and ideals [see also 13A35]; integrally closed rings, related rings (Japanese, etc.)

Badawi, Ayman On the complete integral closure of rings that admit a φ-strongly prime ideal. (English summary) **2004i:13008**
Barucci, Valentina (*with* Gabelli, Stefania; Roitman, Moshe) Complete integral closure and strongly divisorial prime ideals. (English summary) **2004m:13022**
Coykendall, Jim GD(1) and GD(2) are not preserved in integral closures. (English summary) (*see* **2004j:13001**)
— On the integral closure of a half-factorial domain. (English summary) **2004f:13005**
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Echi, Othman (*with* Jarboui, Noôman) On residually integrally closed domains. (English summary) **2004g:13003**
Gabelli, Stefania *see* **Barucci, Valentina et al.**, **2004m:13022**
Goto, Shiro (*with* Hayasaka, Futoshi; Kasuga, Satoe) Towards a theory of Gorenstein m-primary integrally closed ideals. (English summary) **2004m:13024**
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Kantor, I. L. (*with* Rowen, Louis H.) Ring-theoretic properties of commutative algebras of invariants. (English summary) **2004f:13006**
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Paratore, Mariafortuna (*with* La Barbiera, Monica) Combinatorics of the integral closure of monomial ideals. (English summary) **2004f:13007**
Reid, Les (*with* Roberts, Leslie G.; Vitulli, Marie A.) Some results on normal homogeneous ideals. (English summary) **2004e:13013**
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Rowen, Louis H. *see* **Kantor, I. L.**, **2004f:13006**
Swanson, Irena *see* **Delfino, Donatella**, **2004m:13023**
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Bruns, Winfried (*with* Vasconcelos, Wolmer V.) Minors of symmetric and exterior powers. (English summary) **2004g:13008**
Gabelli, Stefania (*with* Tartarone, Francesca) Complete integral closure and Noetherian property for integer-valued polynomial rings. (English summary) **2004m:13053**
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Gilmer, Robert Some finiteness conditions on the set of overrings of an integral domain. (English summary) **2004d:13030**
Grelowski, Krzysztof Integral closure of $\mathbb{C}\{X\}$ in $\mathbb{C}[\![X]\!]$ via the Puiseux theorem. (English summary) **2004a:13014**
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Vitulli, Marie A. Some normal monomial ideals. (English summary) **2004j:13037**
Watanabe, Kei-ichi *see* **Lipman, Joseph**, **2004m:13059**

13B24 Going up; going down; going between

Coykendall, Jim (*with* Dobbs, David E.) Survival-pairs of commutative rings have the

lying-over property. (English summary) **2004d:13009**
Dobbs, David E. (*with* Fontana, Marco; Picavet, Gabriel) Generalized going-down homomorphisms of commutative rings. (English summary) **2004j:13012**
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Fontana, Marco *see* **Dobbs, David E. et al.**, **2004j:13012**
Hetzel, Andrew J. Generalized going-up homomorphisms of commutative rings. (English summary) **2004m:13027**
Kang, Byung Gyun (*with* Oh, Dong Yeol) Lifting up a tree of prime ideals to a going-up extension. (English summary) **2004f:13008**
Oh, Dong Yeol *see* **Kang, Byung Gyun**, **2004f:13008**
Picavet, Gabriel Universally going-down rings, 1-split rings, and absolute integral closure. (English summary) **2004d:13010**
— *see also* **Dobbs, David E. et al.**, **2004i:13009** *and* **2004j:13012**

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Kantor, I. L. (*with* Rowen, Louis H.) Ring-theoretic properties of commutative algebras of invariants. (English summary) **2004f:13006**
Miri, A. *see* **Oukessou, M.**, **2004j:13011**
Oukessou, M. (*with* Miri, A.) Sur les suranneaux minimaux. II. (English summary) [On minimal overrings. II] **2004j:13011**
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13B25 Polynomials over commutative rings [see also 11C08, 13F20, 13M10]

Berson, Joost (*with* Bikker, Jan Willem; van den Essen, Arno) Adapting coordinates. (English summary) **2004h:13013**
Bikker, Jan Willem *see* **Berson, Joost et al.**, **2004h:13013**
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Seĭfullin, T. R. Extension of bounded root functionals of a system of polynomial equations. (Ukrainian summary) **2004m:13028**
Wang, Fang Gui The flat residual rings of polynomials. (Chinese. English and Chinese summaries) **2004a:13005**
Yengui, Ihsen An algorithm for the divisors of monic polynomials over a commutative ring. (English summary) **2004k:13014**

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Aichinger, Erhard (*with* Pilz, Günter F.) A survey on polynomials and polynomial and compatible functions. (English summary) **2004m:08003**
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El Baghdadi, Said *see* **Anderson, David F. et al.**, **2004m:13033**
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Park, Mi Hee Globalized pseudo-valuation domains of the form $\mathrm{Int}(D)$. (English summary) **2004i:13025**
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13B30 Quotients and localization

Eren, Şenol On submodules of $T(R)$. (English summary)
Karim, Driss Zero-dimensionality and Serre rings. (English summary)
Rush, David E. (*with* Wallace, Laura J.) Noetherian maximal spectrum and coprimely packed localizations of polynomial rings. (English summary) **2004f:13009**
Wallace, Laura J. *see* **Rush, David E.**, **2004f:13009**

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Jorgensen, David A. Some liftable cyclic modules. (English summary) **2004a:13008**
Tanimoto, Hiroshi The transcendence degree of an integral domain over a subfield and the dimension of the domain. (English summary) **2004f:13014**

13B35 Completion [see also 13J10]

Items with secondary classifications in 13B35

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Loepp, S. Characterization of completions of excellent domains of characteristic zero. (English summary) **2004e:13033**
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Zöschinger, Helmut Starke Kotorsionsmoduln. (English summary) [Strongly cotorsion modules] **2004j:13016**

13B40 Étale and flat extensions; Henselization; Artin approximation [see also 13J15, 14B12, 14B25]

Avtar, Ram (*with* Sankaran, N.) Henselization of G-domains.
Sankaran, N. *see* **Avtar, Ram**

Items with secondary classifications in 13B40

Antonelli, Peter L. (*with* Bucătaru, Ioan; Rutz, Solange F.) Computer algebra and two and three dimensional Finsler geometry. (English summary) **2004m:53128**
Bucătaru, Ioan *see* **Antonelli, Peter L. et al.**, **2004m:53128**
Conrad, Brian (*with* de Jong, A. J.) Approximation of versal deformations. **2004a:14003**
Delfino, Donatella (*with* Swanson, Irena) Erratum to: "Integral closure of ideals in excellent local rings" [J. Algebra **187** (1997), no. 2, 422–445]. **2004m:13023**
Fernández Lebrón, Magdalena (*with* Narváez Macarro, Luis) Hasse-Schmidt derivations and coefficient fields in positive characteristics. (English summary) **2004i:13031**
Gabber, Ofer (*with* Ramero, Lorenzo) ★ Almost ring theory. **2004k:13027**
Hickel, M. Calcul de la fonction d'Artin-Greenberg d'une branche plane. (English summary) [Computation of the Artin-Greenberg function of a planar branch] **2004m:14051**
de Jong, A. J. *see* **Conrad, Brian**, **2004a:14003**
Narváez Macarro, Luis *see* **Fernández Lebrón, Magdalena**, **2004i:13031**
Oda, Susumu (*with* Yoshida, Ken-ichi[1]) On reciprocal extensions $R[\alpha + \alpha^{-1}]$ of R. (English summary) **2004i:13007**
Picavet, Gabriel Universally going-down rings, 1-split rings, and absolute integral closure. (English summary) **2004d:13010**
Pierzchała, Rafał On roots of polynomials with power series coefficients. (English summary) **2004e:13032**
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Yoshida, Ken-ichi[1] *see* **Oda, Susumu**, **2004i:13007**

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13B99 None of the above, but in this section

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Picavet, Gabriel (*with* Picavet-L'Hermitte, Martine) Closure along an admissible subset, seminormality and t-closedness. (English summary) **2004f:13029**
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13Cxx Theory of modules and ideals

13C05 Structure, classification theorems

Atani, Shahabaddin Ebrahimi Multiplication modules over pullback rings. (English summary) **2004h:13014**
Brookfield, Gary The extensional structure of commutative Noetherian rings. (English summary) **2004c:13007**
Couchot, François Modules with RD-composition series over a commutative ring. (English summary) **2004e:13015**
Eisenbud, David (*with* Weyman, Jerzy) Fitting's lemma for $\mathbb{Z}/2$-graded modules. (English summary) **2004i:13011**
Goeters, H. Patrick (*with* Olberding, Bruce) The Krull-Schmidt property for ideals and modules over integral domains. (English summary) **2004c:13008**
Ivanov, George (*with* Vámos, Peter) A characterization of FGC rings. (English summary) **2004c:13009**
Moore, Marion E. (*with* Smith, Sally J.) Prime and radical submodules of modules over commutative rings. (English summary) **2004b:13008a**
— *see also* **Errata: "Prime and radical submodules of modules over commutative rings"**, **2004b:13008b**
Olberding, Bruce *see* **Goeters, H. Patrick**, **2004c:13008**
Smith, Sally J. *see* **Moore, Marion E.**, **2004b:13008a**; **2004b:13008b** *and* **Errata: "Prime and radical submodules of modules over commutative rings"**, **2004b:13008b**
Vámos, Peter *see* **Ivanov, George**, **2004c:13009**
Weyman, Jerzy *see* **Eisenbud, David**, **2004i:13011**

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"Prime and radical submodules of modules over commutative rings" Erratum: "Prime and radical submodules of modules over commutative rings" [Comm. Algebra **30** (2002), no. 10, 5037–5064; MR 2004b:13008a] by M. E. Moore and S. J. Smith. **2004b:13008b**

Items with secondary classifications in 13C05

Srinivasan, Hema Gorenstein sequences. (English summary) **2004d:13024**

13C10 Projective and free modules and ideals [see also 19A13]

Bhatwadekar, S. M. (*with* Keshari, Manoj Kumar) A question of Nori: projective generation of ideals. (English summary) **2004j:13013**
— A cancellation theorem for projective modules over affine algebras over C_1-fields. (English summary) **2004d:13011**
Das, Mrinal Kanti[2] (*with* Sridharan, Raja) The Euler class groups of polynomial rings and unimodular elements in projective modules. (English summary) **2004i:13012**
Jamil-Zeana, Zaki *see* **Naoum, Adil G.**
Keshari, Manoj Kumar *see* **Bhatwadekar, S. M.**, **2004j:13013**
Lequain, Yves (*with* Mahdou, Najib) On projective modules over polynomial rings. (English summary) **2004k:13015**
Mahdou, Najib *see* **Lequain, Yves**, **2004k:13015**
Mohan Kumar, N. On a theorem of Seshadri. **2004j:13014**
Murthy, M. Pavaman Generators of a general ideal. (English summary) **2004i:13013**
Naoum, Adil G. (*with* Jamil-Zeana, Zaki) Pointwise projective modules and some related modules. (English summary)
Nebiyev, C. (*with* Pancar, A.) On π-projective modules. (English summary)
Pancar, A. *see* **Nebiyev, C.**
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Wang, Fang Gui Modules over R and $R\{X\}$. (English and Chinese summaries) **2004a:13006**

Items with secondary classifications in 13C10

Ali, Majid M. (*with* Smith, David J.) Projective, flat and multiplication modules. (English summary) **2004a:13007**
Das, Mrinal Kanti[2] The Euler class group of a polynomial algebra. **2004c:13031**
Griffith, Phillip The Baer splitting problem in the twentyfirst century. (English summary) **2004j:20110**
Huang, Zhaoyong (*with* Tang, Gaohua) Homological characterizations of rings with property (P). (English summary) **2004j:13019**
Kitamura, Tomonori The freeness of modules of mixed splines. (English summary) **2004a:41008**
Mandal, Satya (*with* Purnaprajna, Bangere P.) Complete intersections and cancellation of projective modules. **2004b:13011**
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Smith, David J. *see* **Ali, Majid M.**, **2004a:13007**
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13C11 Injective and flat modules and ideals

Couchot, François Injective modules and fp-injective modules over valuation rings. (English summary) **2004g:13004**
Fuchs, László[1] Injective modules over Mori domains. (English summary) **2004g:13005**
Khashyarmanesh, K. (*with* Salarian, Sh.) On the rings whose injective hulls are flat. (English summary) **2004d:13012**
Nossem, Nicole Adjunction of pth roots to Dedekind domains and injective modules. (English summary) **2004c:13010**
Puninskiĭ, G. E. Pure injective modules over a commutative valuation domain. (English summary) **2004g:13006**
Salarian, Sh. *see* **Khashyarmanesh, K.**, **2004d:13012**

Items with secondary classifications in 13C11

Akhavizadegan, M. *see* **Payrovi, Sh.**, **2004k:13021**
Al-Shaniafi, Yousef (*with* Singh, Surjeet) A companion ideal of a multiplication module. (English summary) **2004d:13013**
Ansari-Toroghy, H. Analytic independence of an ideal relative to certain injective module over a commutative Noetherian ring. (English summary) **2004g:13001**
Baba, Kiyoshi (*with* Yoshida, Ken-ichi[1]) The extension $R[\beta, \beta^{-1}]$ of a linear fractional transform of an anti-integral element. (English summary) **2004h:13012**
Ivanov, George (*with* Vámos, Peter) A characterization of FGC rings. (English summary) **2004c:13009**
Payrovi, Sh. (*with* Akhavizadegan, M.) Flat resolutions of injective modules. (English summary) **2004k:13021**
Singh, Surjeet *see* **Al-Shaniafi, Yousef**, **2004d:13013**
Vámos, Peter *see* **Ivanov, George**, **2004c:13009**
Vernaeve, H. Optimal embeddings of distributions into algebras. (English summary) **2004c:46068**
Wang, Fang Gui The flat residual rings of polynomials. (Chinese. English and Chinese summaries) **2004a:13005**
Yoshida, Ken-ichi[1] *see* **Baba, Kiyoshi**, **2004h:13012**

13C12 Torsion modules and ideals

Astuti, Pudji (*with* Wimmer, Harald K.) Stacked submodules of torsion modules over discrete valuation domains. (English summary) **2004j:13015**
Wimmer, Harald K. *see* **Astuti, Pudji**, **2004j:13015**

Items with secondary classifications in 13C12

Bazzoni, S. (*with* Salce, Luigi) Almost perfect domains. (English summary) **2004b:13024**
Salce, Luigi *see* **Bazzoni, S.**, **2004b:13024**
Zöschinger, Helmut Starke Kotorsionsmoduln. (English summary) [Strongly cotorsion modules] **2004j:13016**

13C13 Other special types

Ali, Majid M. (*with* Smith, David J.) Projective, flat and multiplication modules. (English summary) **2004a:13007**
Alkan, Mustafa *see* **Tiraş, Yücel**, **2004f:13011** *and* **2004k:13016**
Al-Shaniafi, Yousef (*with* Singh, Surjeet) A companion ideal of a multiplication module. (English summary) **2004d:13013**
Ansari-Toroghy, H. Secondary representation of some modules over a commutative ring. (English summary) **2004d:13014**
Atani, Shahabaddin Ebrahimi Some remarks on coprimary modules. (English summary) **2004b:13009**
Azizi, Abdul Rasool Weak multiplication modules. (English summary)
Dugas, Manfred (*with* Feigelstock, Shalom) Self-free modules and E-rings. (English summary) **2004g:13007**
Feigelstock, Shalom *see* **Dugas, Manfred**, **2004g:13007**
Goeters, H. Patrick (*with* Olberding, Bruce) On locally isomorphic torsion-free modules. (English summary) **2004m:13029**
Jayaram, C. A note on locally finitely generated submodules. (English summary)
Jorgensen, David A. Some liftable cyclic modules. (English summary) **2004a:13008**
Lee, Sang Bum[1] h-divisible modules. (English summary) **2004i:13014**
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Lu, Chin-Pi Saturations of submodules. (English summary) **2004f:13010**
May, Warren Lee[2] Torsion-free modules with nearly unique endomorphism algebras. (English summary) **2004a:13009**
Moch Ryan, A. Forcing linearity numbers of semicyclic modules over commutative Noetherian rings. (English summary) **2004i:13015**
Nguyen Thi Dung (*with* Le Thanh Nhan) On generalized co-Cohen-Macaulay and co-Buchsbaum modules over commutative rings. (English summary)
Nikmehr, M. J. *see* **Tavallaee, H. A.**
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Pusat-Yılmaz, Dilek On prime submodules of finitely generated free modules. (English summary) **2004e:13016**
Singh, Surjeet *see* **Al-Shaniafi, Yousef**, **2004d:13013**
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Tiraş, Yücel (*with* Alkan, Mustafa) Prime modules and submodules. (English summary) **2004f:13011**
— (*with* Alkan, Mustafa) Erratum: "Prime modules and submodules" [Comm. Algebra **31** (2003), no. 11, 5253–5261]. **2004k:13016**
Zöschinger, Helmut Starke Kotorsionsmoduln. (English summary) [Strongly cotorsion modules] **2004j:13016**

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Atani, Shahabaddin Ebrahimi Multiplication modules over pullback rings. (English summary) **2004h:13014**
Bullington, Grady D. Sums and intersections of submodules of a free module over a finite special principal ideal ring. (English summary) **2004m:13048**
Giovannitti, A. (*with* Goeters, H. Patrick; Kehrein, A.) Prebalanced and balanced sequences of modules over domains. (English summary) **2004f:13019**
Goeters, H. Patrick *see* **Giovannitti, A. et al.**, **2004f:13019**
Kehrein, A. *see* **Giovannitti, A. et al.**, **2004f:13019**
Naghipour, R. (*with* Zakeri, H.; Zamani, Naser) Cohen-Macaulayness of multiplication rings and modules. (English summary) **2004c:13012**
Zakeri, H. *see* **Naghipour, R. et al.**, **2004c:13012**
Zamani, Naser *see* **Naghipour, R. et al.**, **2004c:13012**

13C14 Cohen-Macaulay modules [see also 13H10]

Herzog, Jürgen (*with* Takayama, Yukihide) Approximations of generalized Cohen-Macaulay modules. (English summary) **2004m:13030**
Hochster, Melvin Big Cohen-Macaulay algebras in dimension three via Heitmann's theorem. **2004c:13011**
Le Thanh Nhan *see* **Nguyễn Tự Cu'ò'ng**, **2004f:13012**
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Nguyen Thai Hoa *see* **Nguyễn Tự Cu'ò'ng**, **2004c:13013**
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— (*with* Le Thanh Nhan) Pseudo Cohen-Macaulay and pseudo generalized Cohen-Macaulay modules. (English summary) **2004f:13012**
Popov, Oleg N. Once again on a construction of modules over a polynomial ring. (Russian) **2004c:13014**
Puthenpurakal, Tony J. Hilbert-coefficients of a Cohen-Macaulay module. (English summary) **2004c:13015**
Takayama, Yukihide *see* **Herzog, Jürgen**, **2004m:13030**
Zakeri, H. *see* **Naghipour, R. et al.**, **2004c:13012**
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Faridi, Sara Simplicial trees are sequentially Cohen-Macaulay. (English summary) **2004m:13058**
Griffith, Phillip The Baer splitting problem in the twentyfirst century. (English summary) **2004j:20110**
Herzog, Jürgen (*with* Zamani, Naser) Duality and vanishing of generalized local cohomology. (English summary) **2004j:13024**
Johnson, Mark Ray Liaison of product varieties. **2004m:13035**
Warmt, Thorsten ★ Gorenstein-Dualität und topologische Invarianten von Singularitäten. (German. German summary) [Gorenstein duality and topological invariants of singularities] **2004i:14006**
Zamani, Naser *see* **Herzog, Jürgen**, **2004j:13024**

13C15 Dimension theory, depth, related rings (catenary, etc.)

Ameziane Hassani, Souâd (*with* Elkhayarri, Zahra; Yengui, Ihsen) About the spectrum of the rings $R(n)$ and $R\langle n\rangle$. (English summary) **2004c:13016**
Chatham, R. Douglas On the dimensions of the subrings of a commutative ring. (English summary)
Coquand, Thierry (*with* Lombardi, Henri) Hidden constructions in abstract algebra: Krull dimension of distributive lattices and commutative rings. (English summary) **2004m:13031**
Elkhayarri, Zahra *see* **Ameziane Hassani, Souâd et al.**, **2004c:13016**
Gorjizadeh, Vali A note on Krull-dimension. (English summary)
Karim, Driss Zero-dimensional pairs. (English summary)
Lombardi, Henri Dimension de Krull, Nullstellensätze et évaluation dynamique. (English and French summaries) [Krull dimension, Nullstellensätz and dynamical evaluation] **2004f:13013**
— *see also* **Coquand, Thierry**, **2004m:13031**
Mahdou, Najib On (n, d)-Krull rings. (English summary) **2004e:13017**
Ratliff, Louis J., Jr. (*with* Rush, David E.; Shah, Kishor) Note on cyclotomic polynomials and prime ideals. (English summary) **2004m:13032**
Rush, David E. *see* **Ratliff, Louis J., Jr. et al.**, **2004m:13032**
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Tang, Zhongming Relative filter depths of ideals. (English summary) **2004a:13010**
Tanimoto, Hiroshi The transcendence degree of an integral domain over a subfield and the dimension of the domain. (English summary) **2004f:13014**

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Bhatwadekar, S. M. (*with* Keshari, Manoj Kumar) A question of Nori: projective generation of ideals. (English summary) **2004j:13013**
Bouacida, Ezzeddine (*with* Echi, Othman; Picavet, Gabriel; Salhi, Ezzeddine) An extension theorem for sober spaces and the Goldman topology. (English summary) **2004i:54006**
Brodmann, Markus P. (*with* Sharp, Rodney Y.) Geometric domains with specified pseudo-dimensions. (English summary) **2004d:13026**
Echi, Othman *see* **Bouacida, Ezzeddine et al., 2004i:54006**
Fleischmann, Peter (*with* Shank, R. James) The relative trace ideal and the depth of modular rings of invariants. (English summary) **2004e:13012**
Foxby, Hans-Bjørn (*with* Iyengar, Srikanth) Depth and amplitude for unbounded complexes. (English summary) **2004k:13028**
Gordeev, Nikolai (*with* Kemper, Gregor) On the branch locus of quotients by finite groups and the depth of the algebra of invariants. (English summary) **2004h:13010**
Iyengar, Srikanth *see* **Foxby, Hans-Bjørn, 2004k:13028**
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Keshari, Manoj Kumar *see* **Bhatwadekar, S. M., 2004j:13013**
Le Thanh Nhan *see* **Nguyễn Tự Cường, 2004f:13012**
Nguyễn Tự Cường (*with* Le Thanh Nhan) Pseudo Cohen-Macaulay and pseudo generalized Cohen-Macaulay modules. (English summary) **2004f:13012**
Picavet, Gabriel *see* **Bouacida, Ezzeddine et al., 2004i:54006**
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Sather-Wagstaff, Sean On symbolic powers of prime ideals. (English summary) **2004k:13038**
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Sharp, Rodney Y. *see* **Brodmann, Markus P., 2004d:13026**
Wang, Fang Gui The flat residual rings of polynomials. (Chinese. English and Chinese summaries) **2004a:13005**

13C20 Class groups [see also 11R29]

Anderson, David F. (*with* El Baghdadi, Said; Kabbaj, Salah-Eddine) The homogeneous class group of $A + XB[X]$ domains. **2004m:13033**
— (*with* Chang, Gyu Whan) The class group of integral domains. (English summary) **2004d:13015**
Brenner, Holger The affine class group of a normal scheme. (English summary) **2004e:13018**
Bruns, Winfried (*with* Gubeladze, Joseph) Divisorial linear algebra of normal semigroup rings. (English summary) **2004c:13017**
Chabert, Jean-Luc Factorial groups and Pólya groups in Galoisian extension of **Q**. (English summary) **2004m:13034**
Chang, Gyu Whan *see* **Anderson, David F., 2004d:13015**
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Kabbaj, Salah-Eddine (*with* Mimouni, Abdeslam) Class semigroups of integral domains. (English summary) **2004f:13015**
— *see also* **Anderson, David F. et al., 2004m:13033**
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Spiroff, Sandra The limiting behavior on the restriction of divisor classes to hypersurfaces. (English summary) **2004k:13017**

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Chabert, Jean-Luc The Picard group of the ring of integer-valued polynomials on a valuation domain. (English summary) **2004m:13052**
Fausk, H. Picard groups of derived categories. (English summary) **2004d:18005**
Kurihara, Masato Iwasawa theory and Fitting ideals. (English summary) **2004h:11087**
Lemmermeyer, Franz Galois action on class groups. (English summary) **2004e:11125**

13C40 Linkage, complete intersections and determinantal ideals [see also 14M06, 14M10, 14M12]

Bruns, Winfried (*with* Vasconcelos, Wolmer V.) Minors of symmetric and exterior powers. (English summary) **2004g:13008**
Cox, David A. (*with* Schenck, Henry K.) Local complete intersections in $\mathbb{P}^2$ and Koszul syzygies. (English summary) **2004b:13010**
Guerrieri, Anna (*with* Swanson, Irena) On the ideal of minors of matrices of linear forms. **2004j:13017**
Hansen, Johan P. Linkage and codes on complete intersections. (English summary) **2004j:13018**
Johnson, Mark Ray Sums of linked tepli ideals. (English summary) **2004i:13016**
— Liaison of product varieties. **2004m:13035**
Maloo, Alok Kumar (*with* Sengupta, Indranath) Criterion for complete intersection of certain monomial curves. (English summary) **2004e:13019**
Mandal, Satya (*with* Purnaprajna, Bangere P.) Complete intersections and cancellation of projective modules. **2004b:13011**
Nagel, Uwe (*with* Notari, Roberto; Spreafico, Maria Luisa) Curves of degree two and ropes on a line: their ideals and even liaison classes. (English summary) **2004f:13016**
Notari, Roberto *see* **Nagel, Uwe et al., 2004f:13016**
Purnaprajna, Bangere P. *see* **Mandal, Satya, 2004b:13011**
Schenck, Henry K. *see* **Cox, David A., 2004b:13010**
Sengupta, Indranath *see* **Maloo, Alok Kumar, 2004e:13019**
Spreafico, Maria Luisa *see* **Nagel, Uwe et al., 2004f:13016**
Swanson, Irena *see* **Guerrieri, Anna, 2004j:13017**
Usefi, Hamid *see* **Zaare-Nahandi, Rashid, 2004i:13017**
Vasconcelos, Wolmer V. *see* **Bruns, Winfried, 2004g:13008**
Wang, Hsin-Ju A determinantal formula for the Hilbert series of determinantal rings of one-sided ladder. **2004d:13016**
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Băieţică, Cornel Powers of ideals generated by maximal Pfaffians. (English summary)
Chardin, Marc (*with* Ulrich, Bernd) Liaison and Castelnuovo-Mumford regularity. (English summary) **2004c:14095**
— Bounds for Castelnuovo-Mumford regularity in terms of degrees of defining equations. (English summary) **2004k:13019**
— (*with* D'Cruz, Clare) Castelnuovo-Mumford regularity: examples of curves and surfaces. **2004m:13036**
Chuai, Jianjun Two-dimensional vector invariant rings of abelian p-groups. (English summary) **2004e:13010**
Conca, Aldo (*with* Herzog, Jürgen) Castelnuovo-Mumford regularity of products of ideals. (English summary) **2004k:13020**
D'Cruz, Clare *see* **Chardin, Marc, 2004m:13036**
Ferraro, Rita Linkage on arithmetically Cohen-Macaulay schemes with application to the classification of curves of maximal genus. (English summary) **2004m:14104**
Folegatti, C. On linked surfaces in $\mathbb{P}^4$. (English summary) **2004c:14096**
Hartshorne, Robin Geometry of arithmetically Gorenstein curves in $\mathbb{P}^4$. (English summary) **2004m:14105**
Herzog, Jürgen *see* **Conca, Aldo, 2004k:13020**
Migliore, Juan C. (*with* Nagel, Uwe) Liaison and related topics: notes from the Torino workshop-school. (English summary) **2004h:14052**
Nagel, Uwe (*with* Notari, Roberto; Spreafico, Maria Luisa) On the even Gorenstein liaison classes of ropes on a line. (English summary) **2004d:14070**
— *see also* **Migliore, Juan C., 2004h:14052**
Notari, Roberto *see* **Nagel, Uwe et al., 2004d:14070**
Ragusa, Alfio (*with* Zappalà, Giuseppe) On some properties of partial intersection schemes. (English summary) **2004m:13042**
Spreafico, Maria Luisa *see* **Nagel, Uwe et al., 2004d:14070**
Ulrich, Bernd *see* **Chardin, Marc, 2004c:14095**
Vraciu, Adela Tight closure and linkage classes in Gorenstein rings. (English summary) **2004k:13008**
Weyman, Jerzy ★ Cohomology of vector bundles and syzygies. **2004d:13020**
Zappalà, Giuseppe *see* **Ragusa, Alfio, 2004m:13042**

13C99 None of the above, but in this section

Atani, Shahabaddin Ebrahimi On modules and idealization. (English summary) **2004d:13017**
Correa, Iván (*with* Labra, Alicia) A note on quasi n-maps. (English summary)
Labra, Alicia *see* **Correa, Iván**
Shindoh, Yasutaka A submodule unrelated to the corresponding factor module over a commutative ring. (English summary) **2004b:13012**

Items with secondary classifications in 13C99

Corso, Alberto (*with* Polini, Claudia; Ulrich, Bernd) Core of projective dimension one modules. (English summary) **2004h:13006**
Fu, David (*with* Heiligman, Mark; Wickham, Cameron) Decomposition of tableaus annihilated by zero-dimensional ideals. (English summary) **2004i:13022**
Heiligman, Mark *see* **Fu, David et al., 2004i:13022**
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Yasuda, Kan On the automorphism group of the subgroup lattice of a finite abelian p-group; some generalizations. (English summary)

13Dxx Homological methods {For noncommutative rings, see 16Exx; for general categories, see 18Gxx.}

Items with secondary classifications in 13Dxx

Eisenbud, David Projective geometry and homological algebra. (*see* **2004b:14002**)

13D02 Syzygies and resolutions

Akhavizadegan, M. *see* **Payrovi, Sh., 2004k:13021**
Briales-Morales, Emilio (*with* Campillo-López, Antonio; Pisón-Casares, Pilar; Vigneron-Tenorio, Alberto) Minimal resolutions of lattice ideals and integer linear programming. (English summary) **2004k:13018**
Campillo-López, Antonio *see* **Briales-Morales, Emilio et al., 2004k:13018**
Charalambous, Hara (*with* Tchernev, Alexandre B.) Free resolutions for multigraded modules: a generalization of Taylor's construction. (English summary) **2004e:13020**
Chardin, Marc Bounds for Castelnuovo-Mumford regularity in terms of degrees of defining equations. (English summary) **2004k:13019**
— (*with* D'Cruz, Clare) Castelnuovo-Mumford regularity: examples of curves and surfaces. **2004m:13036**
Conca, Aldo Products of ideals with linear resolution. (English summary) **2004d:13018**
— (*with* Herzog, Jürgen) Castelnuovo-Mumford regularity of products of ideals. (English summary) **2004k:13020**
Crupi, Marilena (*with* Utano, Rosanna) Extremal Betti numbers of graded ideals. (English summary) **2004c:13018**
D'Cruz, Clare *see* **Chardin, Marc, 2004m:13036**

Fitchett, Stephanie *see* **Harbourne, Brian et al., 2004c:13019**
Francisco, Christopher A. Minimal graded Betti numbers and stable ideals. (English summary) **2004i:13018**
Hà, Huy Tài (*with* Van Tuyl, Adam) The regularity of points in multi-projective spaces. (English summary) **2004m:13037**
Harbourne, Brian (*with* Holay, Sandeep; Fitchett, Stephanie) Resolutions of ideals of quasiuniform fat point subschemes of $\mathbf{P}^2$. (English summary) **2004c:13019**
Herzog, Jürgen Koszul algebras and modules. (English summary) **2004f:13017**
— *see also* **Conca, Aldo, 2004k:13020**
Holay, Sandeep *see* **Harbourne, Brian et al., 2004c:13019**
Iarrobino, Anthony, Jr. Ancestor ideals of vector spaces of forms, and level algebras. (English summary) **2004m:13038**
Molica Bisci, Giovanni Symmetric algebra of ideals of graphs. (English summary) **2004b:13013**
Payrovi, Sh. (*with* Akhavizadegan, M.) Flat resolutions of injective modules. (English summary) **2004k:13021**
Peeva, Irena Hyperplane arrangements and linear strands in resolutions. (English summary) **2004c:13020**
Pisón-Casares, Pilar *see* **Briales-Morales, Emilio et al., 2004k:13018**
Ragusa, Alfio (*with* Zappalà, Giuseppe) Partial intersections and graded Betti numbers. (English summary) **2004h:13015**
Sano, Mari A combinatorial description of the syzygies of certain Weyl modules. (English summary) **2004d:13019**
Seiler, Werner M. Taylor and Lyubeznik resolutions via Gröbner bases. (English summary) **2004b:13014**
Sengupta, Indranath A minimal free resolution for certain monomial curves in $\mathbb{A}^4$. (English summary) **2004g:13009**
Siebert, Thomas Recursive computation of free resolutions and a generalized Koszul complex. (English summary) **2004f:13018**
Simon, Anne-Marie (*with* Strooker, Jan R.) Stiffness of finite free resolutions and the canonical element conjecture. (French summary) **2004e:13021**
Strooker, Jan R. *see* **Simon, Anne-Marie, 2004e:13021**
Tchernev, Alexandre B. *see* **Charalambous, Hara, 2004e:13020**
Utano, Rosanna *see* **Crupi, Marilena, 2004c:13018**
Van Tuyl, Adam *see* **Hà, Huy Tài, 2004m:13037**
Vigneron-Tenorio, Alberto *see* **Briales-Morales, Emilio et al., 2004k:13018**
Weyman, Jerzy ★ Cohomology of vector bundles and syzygies. **2004d:13020**
Zappalà, Giuseppe *see* **Ragusa, Alfio, 2004h:13015**

Items with secondary classifications in 13D02

Abrescia, Silvia (*with* Bazzotti, Laura; Marino, Lucia) Conductor degree and socle degree. **2004g:13011**
Avramov, Luchezar L. (*with* Grayson, Daniel R.) Resolutions and cohomology over complete intersections. (*see* **2004b:14002**)
Ballico, Edoardo On the minimal free resolution of multiple curves. (English summary) **2004m:14102**
— Nodal curves and curves with few singularities in $\mathbf{P}^n$. (English summary) **2004k:14045**
Bazzotti, Laura *see* **Abrescia, Silvia et al., 2004g:13011**
Bigatti, A. M. (*with* Geramita, Anthony V.) Level algebras, lex segments, and minimal Hilbert functions. (English summary) **2004f:13020**
Brodmann, Markus P. (*with* Schenzel, Peter) On projective curves of maximal regularity. (English summary) **2004d:14035**
Busé, Laurent (*with* Jouanolou, Jean-Pierre) On the closed image of a rational map and the implicitization problem. (English summary) **2004e:14024**
— (*with* Cox, David A.; D'Andrea, Carlos) Implicitization of surfaces in $\mathbb{P}^3$ in the presence of base points. (English summary) **2004f:14092**
Chipalkatti, Jaydeep V. (*with* Geramita, Anthony V.) On parameter spaces for Artin level algebras. **2004c:13025**
Cox, David A. (*with* Schenck, Henry K.) Local complete intersections in $\mathbb{P}^2$ and Koszul syzygies. (English summary) **2004b:13010**
— *see also* **Busé, Laurent et al., 2004f:14092**
D'Andrea, Carlos *see* **Busé, Laurent et al., 2004f:14092**
Dionisi, Carla (*with* Maggesi, Marco) Minimal resolution of general stable rank-2 vector bundles on $\mathbb{P}^2$. (English and Italian summaries) **2004e:14066**
Domínguez, César (*with* Rubio García, Julio Jesús) Modeling inheritance as coercion in a symbolic computation system. (English summary) (*see* **2004j:68016**)
Eisenbud, David An exterior view of modules and sheaves. (English summary) **2004e:14030**
— (*with* Popescu, Sorin; Yuzvinsky, Sergey) Hyperplane arrangement cohomology and monomials in the exterior algebra. (English summary) **2004g:52036**
— (*with* Fløystad, Gunnar; Schreyer, Frank-Olaf) Sheaf cohomology and free resolutions over exterior algebras. (English summary) **2004f:14031**
— (*with* Weyman, Jerzy) Fitting's lemma for $\mathbb{Z}/2$-graded modules. (English summary) **2004i:13011**
Fløystad, Gunnar *see* **Eisenbud, David et al., 2004f:14031**
Fukui, Toshizumi (*with* Weyman, Jerzy) Cohen-Macaulay properties of Thom-Boardman strata. II. The defining ideals of $\Sigma^{i,j}$. (English summary) **2004d:58051**
Geramita, Anthony V. *see* **Chipalkatti, Jaydeep V., 2004c:13025** *and* **Bigatti, A. M., 2004f:13020**
Gold, Leah H. A degree bound for codimension two lattice ideals. (English summary) **2004i:13023**
Grayson, Daniel R. *see* **Avramov, Luchezar L., (2004b:14002)**
Greene, Devin C. V. Free resolutions in multivariable operator theory. (English summary) **2004c:47014**
Greither, Cornelius Computing Fitting ideals of Iwasawa modules. (English summary) **2004k:11170**
Herzog, Jürgen (*with* Takayama, Yukihide) Approximations of generalized Cohen-Macaulay modules. (English summary) **2004m:13030**
— (*with* Srinivasan, Hema) Multiplicities of monomial ideals. **2004m:13064**
Johnson, Mark Ray Liaison of product varieties. **2004m:13035**
Jouanolou, Jean-Pierre *see* **Busé, Laurent, 2004e:14024**
Maggesi, Marco *see* **Dionisi, Carla, 2004e:14066**
Marino, Lucia *see* **Abrescia, Silvia et al., 2004g:13011**
Migliore, Juan C. (*with* Nagel, Uwe) Reduced arithmetically Gorenstein schemes and simplicial polytopes with maximal Betti numbers. (English summary) **2004k:14082**
— (*with* Miró-Roig, Rosa M.) Ideals of general forms and the ubiquity of the weak Lefschetz property. (English summary) **2004c:13027**
Miller, Ezra Graded Greenlees-May duality and the Čech hull. (English summary) **2004b:13019**
Miró-Roig, Rosa M. *see* **Migliore, Juan C., 2004c:13027**
Mohan Kumar, N. (*with* Peterson, Chris; Rao, A. Prabhakar) Degenerating families of rank two bundles. (English summary) **2004f:14060**
Nagel, Uwe Characterization of some projective subschemes by locally free resolutions. (English summary) **2004i:14055**
— *see also* **Migliore, Juan C., 2004k:14082**
Peterson, Chris *see* **Mohan Kumar, N. et al., 2004f:14060**
Popescu, Sorin *see* **Eisenbud, David et al., 2004g:52036**
Rao, A. Prabhakar *see* **Mohan Kumar, N. et al., 2004f:14060**
Rubio García, Julio Jesús *see* **Domínguez, César, (2004j:68016)**
Schenck, Henry K. *see* **Cox, David A., 2004b:13010**
Schenzel, Peter On curves of small degree on a normal rational surface scroll. (English summary) **2004m:14058**
— *see also* **Brodmann, Markus P., 2004d:14035**
Schreyer, Frank-Olaf *see* **Eisenbud, David et al., 2004f:14031**
Srinivasan, Hema *see* **Herzog, Jürgen, 2004m:13064**
Takayama, Yukihide *see* **Herzog, Jürgen, 2004m:13030**
Weyman, Jerzy *see* **Fukui, Toshizumi, 2004d:58051** *and* **Eisenbud, David, 2004i:13011**
Yanagawa, Kohji Derived category of squarefree modules and local cohomology with monomial ideal support. (English summary) **2004j:13041**
Yoshino, Yuji Modules of G-dimension zero over local rings with the cube of maximal ideal being zero. (English summary) **2004m:13039**
Yuzvinsky, Sergey *see* **Eisenbud, David et al., 2004g:52036**

13D03 (Co)homology of commutative rings and algebras (e.g., Hochschild, André-Quillen, cyclic, dihedral, etc.)

Avramov, Luchezar L. (*with* Iyengar, Srikanth) André-Quillen homology of algebra retracts. (English and French summaries) **2004c:13021**
Brasselet, Jean-Paul (*with* Legrand, André; Teleman, Nicolae) Hochschild homology of singular algebras. (English summary) **2004k:13022**
Iyengar, Srikanth *see* **Avramov, Luchezar L., 2004c:13021**
Legrand, André *see* **Brasselet, Jean-Paul et al., 2004k:13022**
Lindenstrauss, Ayelet The Hochschild homology of fatpoints. (English summary) **2004k:13023**
Pirashvili, Teimuraz André-Quillen homology via functor homology. (English summary) **2004c:13022**
Teleman, Nicolae *see* **Brasselet, Jean-Paul et al., 2004k:13022**

Items with secondary classifications in 13D03

Dupont, Nicolas (*with* Hess, Kathryn) Commutative free loop space models at large primes. (English summary) **2004c:55016**
Gabber, Ofer (*with* Ramero, Lorenzo) ★ Almost ring theory. **2004k:13027**
Hess, Kathryn *see* **Dupont, Nicolas, 2004c:55016**
Michler, Ruth Ingrid Invariants of singular plane curves. (English summary) **2004j:14026**
Ramero, Lorenzo *see* **Gabber, Ofer, 2004k:13027**
Robinson, Christopher Alan Gamma homology, Lie representations and E_∞ multiplications. (English summary) **2004c:55020**
Rodicio, Antonio García (*with* Soto, José J. M.) Ascent and descent of Gorenstein property. (English summary) **2004m:13062**
Soto, José J. M. Some remarks on relative Tor and regular homomorphisms. **2004k:13026**
— *see also* **Rodicio, Antonio García, 2004m:13062**

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13D05 Homological dimension

Asadollahi, J. (*with* Salarian, Sh.) Generalized Cohen-Macaulay dimension. (English summary) **2004k:13024**
Chen, Huan Yin *see* **Ouyang, Lun Qun, 2004i:13019**
Couchot, François The λ-dimension of commutative arithmetic rings. (English summary) **2004c:13023**
Fuchs, László[1] (*with* Rangaswamy, K. M.) On the global balanced-projective dimension of valuation domains. (English summary) **2004b:13015**
Huang, Zhaoyong (*with* Tang, Gaohua) Homological characterizations of rings with property (P). (English summary) **2004j:13019**
Huneke, Craig (*with* Wiegand, Roger) The Tor game. **2004k:13025**
Khatami, Leila (*with* Yassemi, Siamak) Gorenstein injective and Gorenstein flat dimensions under base change. (English summary) **2004g:13010**
Mahdou, Najib On (n, d)-rings. (*see* **2004i:00013**)
Miller, Claudia The Frobenius endomorphism and homological dimensions. **2004j:13020**
Ouyang, Lun Qun (*with* Chen, Huan Yin) Homological dimensions of the residue rings of power series rings. (Chinese. English and Chinese summaries) **2004i:13019**
Rangaswamy, K. M. *see* **Fuchs, László[1], 2004b:13015**
Salarian, Sh. *see* **Asadollahi, J., 2004k:13024**
Tang, Gaohua *see* **Huang, Zhaoyong, 2004j:13019**
Wiegand, Roger *see* **Huneke, Craig, 2004k:13025**
Yassemi, Siamak *see* **Khatami, Leila, 2004g:13010**
Yoshino, Yuji Modules of G-dimension zero over local rings with the cube of maximal ideal being zero. (English summary) **2004m:13039**

Items with secondary classifications in 13D05

Goto, Shiro (*with* Hayasaka, Futoshi) Finite homological dimension and primes associated to integrally closed ideals. II. (English summary) **2004e:13035**
Hayasaka, Futoshi *see* **Goto, Shiro, 2004e:13035**
Knaf, Hagen Regular curves over Prüfer domains. (English summary) **2004j:13028**
Li, Hui Shi Regularity and K_0-group of quadric solvable polynomial algebras. (English summary) **2004i:13035**
Şega, Liana M. Vanishing of cohomology over Gorenstein rings of small codimension. (English summary) **2004b:13016**

13D07 Homological functors on modules (Tor, Ext, etc.)

Fuchs, László[1] (*with* Shelah, Saharon) On a non-vanishing Ext. (English summary)
Giovannitti, A. (*with* Goeters, H. Patrick; Kehrein, A.) Prebalanced and balanced sequences of modules over domains. (English summary) **2004f:13019**
Goeters, H. Patrick The structure of Ext for torsion-free modules of finite rank over Dedekind domains. (English summary) **2004e:13022**
— *see also* **Giovannitti, A. et al., 2004f:13019**
Golod, E. S. On duality in the homology algebra of a Koszul complex. (Russian. English and Russian summaries)
Jorgensen, David A. Support sets of pairs of modules. (English summary) **2004c:13024**
Kehrein, A. *see* **Giovannitti, A. et al., 2004f:13019**
Şega, Liana M. Vanishing of cohomology over Gorenstein rings of small codimension. (English summary) **2004b:13016**
Shelah, Saharon *see* **Fuchs, László[1]**
Soto, José J. M. Some remarks on relative Tor and regular homomorphisms. **2004k:13026**
Theodorescu, Emanoil Bivariate Hilbert functions for the torsion functor. (English summary) **2004b:13017**

Items with secondary classifications in 13D07

Asadollahi, J. (*with* Khashyarmanesh, K.; Salarian, Sh.) A generalization of the cofiniteness problem in local cohomology modules. (English summary) **2004j:13023**
Avramov, Luchezar L. (*with* Grayson, Daniel R.) Resolutions and cohomology over complete intersections. (*see* **2004b:14002**)
Farinati, Marco A. On the derived invariance of cohomology theories for coalgebras. (English summary) **2004e:16011**
Frankild, Anders Vanishing of local homology. (English summary) **2004d:13027**
Grayson, Daniel R. *see* **Avramov, Luchezar L.,** (**2004b:14002**)
Herzog, Jürgen Koszul algebras and modules. (English summary) **2004f:13017**
— (*with* Popescu, Dorin; Vladoiu, Marius) On the Ext-modules of ideals of Borel type. **2004i:13024**
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13Exx Chain conditions, finiteness conditions

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Taherizadeh, A.-J. Modules satisfying *dcc* on certain submodules.
Tajarod, R. *see* **Brodmann, Markus P. et al.**, **2004f:13021**
Watanabe, Junzo *see* **Harima, Tadahito et al.**, **2004b:13001**

13E15 Rings and modules of finite generation or presentation; number of generators

Bullington, Grady D. Sums and intersections of submodules of a free module over a finite special principal ideal ring. (English summary) **2004m:13048**

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Bruns, Winfried (*with* Gubeladze, Joseph) Divisorial linear algebra of normal semigroup rings. (English summary) **2004c:13017**
Datt Kumar, Shiv (*with* Lal, Ramji) Lifting of the generators of an ideal and Nori's homotopy conjecture. (English summary) **2004j:13033**
Gubeladze, Joseph *see* **Bruns, Winfried**, **2004c:13017**
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Schoutens, Hans Number of generators of a Cohen-Macaulay ideal. (English summary) **2004c:13039**

13E99 None of the above, but in this section

Benhissi, Ali CCA pour les idéaux radicaux et divisoriels. (English summary) [ACC for radical and divisorial ideals] **2004j:13027**

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Bazzoni, S. (*with* Salce, Luigi) Almost perfect domains. (English summary) **2004b:13024**
Salce, Luigi *see* **Bazzoni, S.**, **2004b:13024**

13Fxx Arithmetic rings and other special rings

13F05 Dedekind, Prüfer and Krull rings and their generalizations

Al-Aubaidy, W. K. *see* **Naoum, Adil G.**, **2004e:13025**
Anderson, D. D. (*with* Zafrullah, Muhammad) A property of weakly Krull domains. (English summary) **2004g:13015**
El Baghdadi, Said Factorization of divisorial ideals in a generalized Krull domain. **2004m:13049**
Fontana, Marco (*with* Jara, P.; Santos, Eva) Prüfer $\star$-multiplication domains and semistar operations. (English summary) **2004b:13021**
Geroldinger, Alfred (*with* Göbel, Rüdiger) Half-factorial subsets in infinite abelian groups. (English summary) **2004m:13050**
Göbel, Rüdiger *see* **Geroldinger, Alfred**, **2004m:13050**
Jara, P. *see* **Fontana, Marco et al.**, **2004b:13021**
Knaf, Hagen Regular curves over Prüfer domains. (English summary) **2004j:13028**
Lee, Sang Bum[1] n-Prüfer domains. (English summary)
Lombardi, Henri Platitude, localisation et anneaux de Prüfer: une approche constructive. (English and French summaries) [Flatness, localization and Prüfer rings: a constructive approach] **2004f:13026**
Naoum, Adil G. (*with* Al-Aubaidy, W. K.) Actions of finite groups on commutative rings. I. (English summary) **2004e:13025**
Picavet, Gabriel (*with* Picavet-L'Hermitte, Martine) Trigonometric polynomial rings. (English summary) **2004i:13021**
Picavet-L'Hermitte, Martine *see* **Picavet, Gabriel**, **2004i:13021**
Popescu, Elena Liliana A new characterization of generalized Dedekind domains. (English summary)
Santa-Clara, Catarina (*with* Smith, Patrick F.) Direct products of simple modules over Dedekind domains. (English summary)
Santos, Eva *see* **Fontana, Marco et al.**, **2004b:13021**
Smith, Patrick F. *see* **Santa-Clara, Catarina**
Trlifaj, Jan (*with* Wallutis, Simone L.) Corrigendum to: "Tilting modules over small Dedekind domains" [J. Pure Appl. Algebra **172** (2002), no. 1, 109–117; MR 2003b:13029]. **2004f:13027**
Wallutis, Simone L. *see* **Trlifaj, Jan**, **2004f:13027**
Zafrullah, Muhammad *see* **Anderson, D. D.**, **2004g:13015**

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Ali, Majid M. (*with* Smith, David J.) Generalized GCD rings. II. (English summary) **2004h:13005**
Atani, Shahabaddin Ebrahimi Some remarks on coprimary modules. (English summary) **2004b:13009**
Chabert, Jean-Luc Factorial groups and Pólya groups in Galoisian extension of $\mathbf{Q}$. (English summary) **2004m:13034**
Chang, Gyu Whan (*with* Park, Jeanam) Mori domains whose primary t-ideals are valuation ideals. (English summary) **2004d:13002**
— (*with* Dumitrescu, Tiberiu; Zafrullah, Muhammad) t-splitting sets in integral domains. (English summary) **2004j:13002**
Chapman, Scott T. (*with* Rosales, J. C.) On the asymptotic values of length functions in Krull and finitely generated commutative monoids. (English summary) **2004c:20105**
— (*with* Smith, William W.) On factorization in block monoids formed by $\{\overline{1}, \overline{a}\}$ in $\mathbb{Z}_n$. (English summary) **2004f:20103**
Charkani, M. E. (*with* Lahlou, Ouafae) On Dedekind's criterion and monogenicity over Dedekind rings. (English summary) **2004m:11173**
Coykendall, Jim On the integral closure of a half-factorial domain. (English summary) **2004f:13005**

Dobbs, David E. On chains of overrings of an integral domain. (English summary) **2004j:13009**
— (*with* Picavet, Gabriel) Weak Baer going-down rings. (English summary) **2004i:13009**
Dumitrescu, Tiberiu (*with* Moldovan, Romulus) Ascending nets of Prüfer v-multiplication domains. (English summary) **2004c:13001**
— *see also* **Chang, Gyu Whan et al., 2004j:13002**
Fuchs, László[1] Injective modules over Mori domains. (English summary) **2004g:13005**
Gilmer, Robert Some finiteness conditions on the set of overrings of an integral domain. (English summary) **2004d:13030**
Goeters, H. Patrick (*with* Olberding, Bruce) On locally isomorphic torsion-free modules. (English summary) **2004m:13029**
— The structure of Ext for torsion-free modules of finite rank over Dedekind domains. (English summary) **2004e:13022**
Halter-Koch, Franz Kronecker function rings and generalized integral closures. (English summary) **2004e:13004**
— Characterization of Prüfer multiplication monoids and domains by means of spectral module systems. (English summary) **2004f:20102**
Kim, Hwankoo Elasticity of factorization in graded integral domains. (English summary) **2004m:13005**
Lahlou, Ouafae *see* **Charkani, M. E., 2004m:11173**
Moldovan, Romulus *see* **Dumitrescu, Tiberiu, 2004c:13001**
Nossem, Nicole Adjunction of pth roots to Dedekind domains and injective modules. (English summary) **2004c:13010**
Olberding, Bruce A geometric setting for some properties of torsion-free modules. **2004e:14003**
— *see also* **Goeters, H. Patrick, 2004m:13029**
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— (*with* Tartarone, Francesca) Strong Mori and Noetherian properties of integer-valued polynomial rings. (English summary) **2004m:13054**
Picavet, Gabriel *see* **Dobbs, David E., 2004i:13009**
Picavet-L'Hermitte, Martine Cale bases in algebraic orders. (English summary) **2004e:11132**
Pusat-Yılmaz, Dilek On prime submodules of finitely generated free modules. (English summary) **2004e:13016**
Rosales, J. C. *see* **Chapman, Scott T., 2004c:20105**
Smith, David J. *see* **Ali, Majid M., 2004h:13005**
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Tartarone, Francesca *see* **Park, Mi Hee, 2004m:13054**
Zafrullah, Muhammad *see* **Chang, Gyu Whan et al., 2004j:13002**

13F07 Euclidean rings and generalizations

Items with secondary classifications in 13F07

Picavet, Gabriel (*with* Picavet-L'Hermitte, Martine) Trigonometric polynomial rings. (English summary) **2004i:13021**
Picavet-L'Hermitte, Martine *see* **Picavet, Gabriel, 2004i:13021**

13F10 Principal ideal rings

Zanello, Fabrizio When are there infinitely many irreducible elements in a principal ideal domain?

Items with secondary classifications in 13F10

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Eddahabi, Raja *see* **Bouanane, Abdelmalek, (2004h:13002)**
Göbel, Rüdiger (*with* Shelah, Saharon; Strüngmann, Lutz) Almost-free E-rings of cardinality $\aleph_1$. (English summary) **2004f:20093**
Shelah, Saharon *see* **Göbel, Rüdiger et al., 2004f:20093**
Strüngmann, Lutz *see* **Göbel, Rüdiger et al., 2004f:20093**

13F15 Factorial rings, unique factorization domains [see also 14M05]

Coykendall, Jim (*with* Zafrullah, Muhammad) AP-domains and unique factorization. (English summary) **2004j:13029**
Herwig, Bernhard (*with* Ziegler, Martin[1]) A remark on sums of units. (English summary) **2004a:13013**
Picavet-L'Hermitte, Martine Some remarks on half-factorial orders. (Spanish summary) **2004j:13030**
Zafrullah, Muhammad *see* **Coykendall, Jim, 2004j:13029**
Ziegler, Martin[1] *see* **Herwig, Bernhard, 2004a:13013**

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Bayart, Frédéric (*with* Mouze, Augustin) Factorialité de l'anneau des séries de Dirichlet analytiques. (English and French summaries) [The ring of analytic Dirichlet series is factorial] **2004b:11130**
Coykendall, Jim On the integral closure of a half-factorial domain. (English summary) **2004f:13005**
Flenner, Hubert (*with* Zaidenberg, Mikhail) Normal affine surfaces with $\mathbb{C}^*$-actions. **2004k:14118**
Mouze, Augustin *see* **Bayart, Frédéric, 2004b:11130**
Zaidenberg, Mikhail *see* **Flenner, Hubert, 2004k:14118**

13F20 Polynomial rings and ideals; rings of integer-valued polynomials [see also 11C08, 13B25]

Aguirre, Edith (*with* Jarrah, Abdul Salam; Laubenbacher, Reinhard) Generic ideals and Moreno-Socías conjecture. (English summary) (*see* **2004j:68016**)
Apel, Joachim On a conjecture of R. P. Stanley. I. Monomial ideals. (English summary) **2004e:13026**
— On a conjecture of R. P. Stanley. II. Quotients modulo monomial ideals. (English summary) **2004e:13027**
Bahiano, Carlos E. N. Symbolic powers of edge ideals. (English summary) **2004m:13051**
Ballico, Edoardo Subsets of $PG(n,q)$, p-powers of monomials and postulation. (English summary)
Bandini, Andrea Functions $f:\mathbf{Z}/p^n\mathbf{Z}\to\mathbf{Z}/p^n\mathbf{Z}$ induced by polynomials of $\mathbf{Z}[X]$. (English summary) **2004e:13028**
Berson, Joost (*with* van den Essen, Arno) An algorithm to find a coordinate's mate. (English summary) **2004j:13031**
Boda, E. (*with* Farnbauer, R.) On standard basis and multiplicity of $(X^a - Y^b, X^c - Y^d)$. (English summary) **2004j:13032**
Brewer, James W. A polynomial ring sampler. (*see* **2004k:16001**)
Chabert, Jean-Luc The Picard group of the ring of integer-valued polynomials on a valuation domain. (English summary) **2004m:13052**
Chapman, Scott T. (*with* Loper, K. Alan; Smith, William W.) Strongly two-generated ideals in rings of integer-valued polynomials determined by finite sets. (English and French summaries)
Das, Mrinal Kanti[2] The Euler class group of a polynomial algebra. **2004c:13031**
Datt Kumar, Shiv (*with* Lal, Ramji) Lifting of the generators of an ideal and Nori's homotopy conjecture. (English summary) **2004j:13033**
van den Essen, Arno (*with* van Rossum, Peter) Coordinates in two variables over a $\mathbb{Q}$-algebra. (English summary) **2004k:13034**
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Fu, David (*with* Heiligman, Mark; Wickham, Cameron) Decomposition of tableaus annihilated by zero-dimensional ideals. (English summary) **2004i:13022**
Gabelli, Stefania (*with* Tartarone, Francesca) Complete integral closure and Noetherian property for integer-valued polynomial rings. (English summary) **2004m:13053**
Gauthier, Claude Quelques propriétés algébriques des ensembles de nombres à inverse additif composé. (English and French summaries) [Some algebraic properties of sets of numbers with compound additive inverse] **2004b:13022**
Gianni, Patrizia *see* **Fortuna, Elisabetta et al., (2004j:68016)**
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Jarrah, Abdul Salam *see* **Aguirre, Edith et al., (2004j:68016)**
Kireeva, E. A. On the finite generation of invariant submodules in polynomial algebras. (Russian) **2004j:13034**
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Le Thanh Nhan (*with* Morales, Marcel) On length of generalized fractions $\mathbf{1}/(x_1^n,\dots,x_d^n,\mathbf{1})$. (English summary) **2004j:13035**
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Loper, K. Alan *see* **Chapman, Scott T. et al.**
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Park, Mi Hee Globalized pseudo-valuation domains of the form $\mathrm{Int}(D)$. (English summary) **2004i:13025**
— (*with* Tartarone, Francesca) Strong Mori and Noetherian properties of integer-valued polynomial rings. (English summary) **2004m:13054**
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Restuccia, Gaetana (*with* Rinaldo, Giancarlo) Ideals of graphs with a small number of edges generated by s-sequences. (English summary) **2004c:13032**
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Shestakov, Ivan P. (*with* Umirbaev, Ualbai U.) The Nagata automorphism is wild. (English summary) **2004j:13036**
— (*with* Umirbaev, Ualbai U.) Poisson brackets and two-generated subalgebras of rings of polynomials. **2004k:13036**
— (*with* Umirbaev, Ualbai U.) The tame and the wild automorphisms of polynomial rings in three variables. **2004h:13022**
Smith, William W. *see* **Chapman, Scott T. et al.**
Stasica, Anna On the Noether exponent. (English summary) **2004e:13029**
Swanson, Irena The minimal components of the Mayr-Meyer ideals. **2004g:13016**
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Torstensson, Anna Canonical bases for subalgebras on two generators in the univariate polynomial ring. (English summary) **2004b:13023**
Trager, Barry *see* **Fortuna, Elisabetta et al., (2004j:68016)**
Umirbaev, Ualbai U. *see* **Shestakov, Ivan P., 2004h:13022; 2004j:13036** *and* **2004k:13036**
Valencia, Carlos E. (*with* Villarreal, Rafael H.) Canonical modules of certain edge subrings. (English summary) **2004c:13033**
Villarreal, Rafael H. *see* **Valencia, Carlos E., 2004c:13033**
Vitulli, Marie A. Some normal monomial ideals. (English summary) **2004j:13037**

Vladoiu, Marius *see* **Herzog, Jürgen et al., 2004i:13024**
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Zafrullah, Muhammad Facets on rings between $D[X]$ and $K[X]$. (English summary) **2004j:13038**
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Anderson, David F. (*with* Chang, Gyu Whan; Park, Jeanam) $D[X^2, X^3]$ over an integral domain D. **2004k:13011**
Ayad, Mohamed (*with* Ryckelynck, Philippe) On the invariant fields and rings of some groups of polynomial automorphisms. (English summary) **2004b:12006**
Bayer, Thomas On the intersection of invariant rings. (English summary) **2004a:13003**
Berson, Joost (*with* Bikker, Jan Willem; van den Essen, Arno) Adapting coordinates. (English summary) **2004h:13013**
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Bikker, Jan Willem *see* **Berson, Joost et al., 2004h:13013**
Chabert, Jean-Luc Factorial groups and Pólya groups in Galoisian extension of **Q**. (English summary) **2004m:13034**
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Crupi, Marilena (*with* Utano, Rosanna) Extremal Betti numbers of graded ideals. (English summary) **2004c:13018**
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Friedl, Katalin (*with* Rónyai, Lajos) Order shattering and Wilson's theorem. (English summary) **2004m:05259**
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Hà Huy Vui Milnor number of positive polynomials. (English summary) **2004c:32053**
Jędrzejewicz, Piotr Rings of constants of p-homogeneous polynomial derivations. (English summary) **2004h:13027**
La Barbiera, Monica *see* **Paratore, Mariafortuna, 2004f:13007**
Li, Hui Shi Regularity and K_0-group of quadric solvable polynomial algebras. (English summary) **2004i:13035**
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McAdam, Stephen (*with* Swan, Richard G.) Unique comaximal factorization. **2004m:13006**
Molica Bisci, Giovanni Symmetric algebra of ideals of graphs. (English summary) **2004b:13013**
Murthy, M. Pavaman Generators of a general ideal. (English summary) **2004i:13013**
Nowicki, Andrzej Władysław (*with* Nowosad, Ilona) Local derivations for quotient and factor algebras of polynomials. (English summary) **2004h:13028**
— *see also* **Maciejewski, Andrzej J., 2004i:13032**
Nowosad, Ilona *see* **Nowicki, Andrzej Władysław, 2004h:13028**
Paratore, Mariafortuna (*with* La Barbiera, Monica) Combinatorics of the integral closure of monomial ideals. (English summary) **2004f:13007**
Park, Jeanam *see* **Anderson, David F. et al., 2004k:13011**
Peretz, Ronen *see* **van den Essen, Arno, 2004j:14068**
Pezda, T. Cycles of polynomial mappings in several variables over rings of integers in finite extensions of the rationals. **2004e:11023**
Robbiano, Lorenzo *see* **Bigatti, A. M., 2004i:13033**
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Rush, David E. (*with* Wallace, Laura J.) Noetherian maximal spectrum and coprimely packed localizations of polynomial rings. (English summary) **2004f:13009**
Ryckelynck, Philippe *see* **Ayad, Mohamed, 2004b:12006**
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Shpilrain, Vladimir (*with* Yu, Jie-Tai) Factor algebras of free algebras: on a problem of G. Bergman. (English summary) **2004d:16046**
Skjelnes, Roy Mikael Resultants and the Hilbert scheme of points on the line. (English summary) **2004g:14006**
Swan, Richard G. *see* **McAdam, Stephen, 2004m:13006**
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Tartarone, Francesca Polynomial closure in Noetherian pseudo-valuation domains. (English summary) **2004i:13002**
Umirbaev, Ualbai U. (*with* Shestakov, Ivan P.) Subalgebras and automorphisms of polynomial rings. (Russian) **2004i:14068**
Utano, Rosanna *see* **Crupi, Marilena, 2004c:13018**
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Wallace, Laura J. *see* **Rush, David E., 2004f:13009**
Yengui, Ihsen *see* **Ameziane Hassani, Souâd et al., 2004c:13016**
Yu, Jie-Tai *see* **Shpilrain, Vladimir, 2004d:16046**
Zanello, Fabrizio When are there infinitely many irreducible elements in a principal ideal domain?
Zhu, Xiaosheng Idempotents and quasi-monic polynomials. (English summary) **2004h:16031**

13F25 Formal power series rings [see also 13J05]

Fripertinger, Harald (*with* Reich, Ludwig) On a linear functional equation for formal power series. (English summary) **2004i:13027**
Green, Barry Automorphisms of formal power series rings over a valuation ring. **2004j:13039**
Grelowski, Krzysztof Integral closure of $\mathbb{C}\{X\}$ in $\mathbb{C}[\![X]\!]$ via the Puiseux theorem. (English summary) **2004a:13014**
Heinzer, William J. (*with* Rotthaus, Christel; Wiegand, Sylvia M.) Examples of integral domains inside power series rings. (English summary) **2004k:13037**
van der Hoeven, Joris A new zero-test for formal power series. (English summary) (*see* **2004j:68017**)
Klimann, Ines Some representations for series on idempotent semirings—or how to go beyond recognizability keeping representability. (English summary) **2004e:13030**
Micale, Vincenzo (*with* Molica Bisci, Giovanni; Torrisi, B.) Order bases of subalgebras of $k[\![X]\!]$. (English summary) **2004m:13055**
Molica Bisci, Giovanni *see* **Micale, Vincenzo et al., 2004m:13055**
Mouze, Augustin Sur la composition de séries formelles à croissance contrôlée. (English summary) [The composition of formal power series with controlled growth] **2004i:13028**
— Théorèmes de préparation Gevrey et étude de certaines applications formelles. (English summary) [Gevrey preparation theorems and study of some formal mappings] **2004e:13031**
Park, Mi Hee Power series rings over strong Mori domains. (English summary) **2004h:13023**
Pierzchała, Rafał On roots of polynomials with power series coefficients. (English summary) **2004e:13032**
Reich, Ludwig *see* **Fripertinger, Harald, 2004i:13027**
Rohorlich, David E. Homomorphisms into groups of formal power series.
Rotthaus, Christel *see* **Heinzer, William J. et al., 2004k:13037**
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Vaidya, Sanju Puiseux expansions in nonzero characteristic. **2004m:13056**
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Benhissi, Ali CCA pour les idéaux radicaux et divisoriels. (English summary) [ACC for radical and divisorial ideals] **2004j:13027**
Chen, Huan Yin *see* **Ouyang, Lun Qun, 2004i:13019**
Hefez, Abramo (*with* Hernandes, Marcelo E.) Classification of algebroid plane curves with semigroup $\langle 6, 9, 19\rangle$. (English summary) **2004h:14035**
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Ouyang, Lun Qun (*with* Chen, Huan Yin) Homological dimensions of the residue rings of power series rings. (Chinese. English and Chinese summaries) **2004i:13019**
Panazzolo, Daniel r-invariant varieties of vector fields. (Portuguese) **2004k:32038**

13F30 Valuation rings [see also 13A18]

Brusamarello, Rosali (*with* Gerônimo, João; Do Rocío, Osvaldo) The minimal prime ideal of a valuation ring. (English summary)
Danilov, Vladimir Ivanovich[1] (*with* Koshevoĭ, G. A.) Nilpotent operators and discretely concave functions. (Russian. Russian summary) **2004f:13028**
Do Rocío, Osvaldo *see* **Brusamarello, Rosali et al.**
(Epp, Helmut P.) *see* **Kuhlmann, Franz-Viktor, 2004g:13017**
Ershov, Yurīĭ Leonidovich A non near-Boolean family of valuation rings satisfying an arithmetic local-global principle. **2004j:13040**
Gao, Enwei *see* **Zhang, Jinxia, 2004c:13034**
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Granja Barón, Angel (*with* Rodriguez Sanchez, Cristina) Proximity relations for real rank one valuations dominating a local regular ring. (English summary) **2004m:13057**
Koshevoĭ, G. A. *see* **Danilov, Vladimir Ivanovich**[1], **2004f:13028**
Kuhlmann, Franz-Viktor A correction to: "Elimination of wild ramification" [Invent. Math. **19** (1973), 235–249; MR 48 #294] by H. P. Epp. (English summary) **2004g:13017**
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Yasuda, Kan On the automorphism group of the subgroup lattice of a finite abelian p-group; some generalizations. (English summary)
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13Hxx Local rings and semilocal rings

13H05 Regular local rings

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13Jxx Topological rings and modules [see also 16W60, 16W80]

13J05 Power series rings [see also 13F25]

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13J10 Complete rings, completion [see also 13B35]

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13J20 Global topological rings

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13J25 Ordered rings [see also 06F25]

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13J30 Real algebra [see also 12D15, 14Pxx]

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13K05 Witt vectors and related rings

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13L05 Applications of logic to commutative algebra [see also 03Cxx, 03Hxx]

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14–XX Algebraic geometry

14–01 Instructional exposition (textbooks, tutorial papers, etc.)

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(Kato, Goro) *see* **Ueno, Kenji, 2004g:14001**
(Muciño-Raymundo, Jesús) *see* **Algebraic geometry topics, 2004c:14001**
Ueno, Kenji ★ Algebraic geometry. 3. **2004g:14001**

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Algebraic geometry topics ★ Tópicos de geometría algebraica. (Spanish) [Algebraic geometry topics] **2004c:14001**

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Taylor, Joseph L. ★ Several complex variables with connections to algebraic geometry and Lie groups. (English summary) **2004b:32001**

14–02 Research exposition (monographs, survey articles)

Mukai, Shigeru ★ An introduction to invariants and moduli. **2004g:14002**
(Oxbury, W. M.) *see* **Mukai, Shigeru, 2004g:14002**
Sakane, Yusuke Bézier curves and Bézier surfaces. (Japanese)

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Arithmetic, geometry and physics around Calabi-Yau varieties and mirror symmetry Problems. (*see* **2004f:14001**)

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Barth, Wolf P. (*with* Hulek, Klaus; Peters, Chris A. M.; Van de Ven, Antonius) ★ Compact complex surfaces. **2004m:14070**
Chałupnik, Marcin (*with* Weber, Andrzej) The motives of Vladimir Voevodsky. (Polish)
Hulek, Klaus *see* **Barth, Wolf P. et al., 2004m:14070**
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Mehta, Vikram B. Seshadri's contributions to moduli and geometric invariant theory. (*see* **2004f:14002**)
Musili, C. *see* **Lakshmibai, V., (2004f:14002)**
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Nitsure, Nitin Parabolic bundles. (*see* **2004f:14002**)
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(Rashed, Roshdi) *see* **Houzel, Christian, 2004b:14001**
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(Ariki, Susumu) *see* **Morita, Yasuo** *and* **Shoji, Toshiaki**
(Barlotti, Adriano) *see* **Guccia, Giovan Battista, 2004a:01041**
(Bartolozzi, F.) *see* **Guccia, Giovan Battista, 2004a:01041**
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(Chern, Shiing-Shen) *see* **Chow, Wei-Liang, 2004f:01043**
Chow, Wei-Liang ★ The collected papers of Wei-Liang Chow. **2004f:01043**
Colliot-Thélène, Jean-Louis *see* **Birch, B. J. et al., (2004k:00024)**
Del Centina, Andrea Abel's Parisian memoir and its importance for geometry. (Italian) **2004c:01019**
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Sankaran, G. K. *see* **Birch, B. J. et al., (2004k:00024)**
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— ★ Collected papers. Vol. II. 1967–1977. **2004g:01046b**
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Collected Works:
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14–04 Explicit machine computation and programs (not the theory of computation or programming)

(Eisenbud, David) *see* **Computations in algebraic geometry with Macaulay 2, 2004b:14002**
(Grayson, Daniel R.) *see* **Computations in algebraic geometry with Macaulay 2, 2004b:14002**
Labs, Oliver *see* **van Straten, Duco, (2004e:00007)**
Schreyer, Frank-Olaf (*with* Tonoli, Fabio) Needles in a haystack: special varieties via small fields. (*see* **2004b:14002**)
Smith, Gregory G. (*with* Sturmfels, Bernd) Teaching the geometry of schemes. (*see* **2004b:14002**)
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(Stillman, Michael E.) *see* **Computations in algebraic geometry with Macaulay 2, 2004b:14002**
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Sturmfels, Bernd *see* **Computations in algebraic geometry with Macaulay 2, 2004b:14002** *and* **Smith, Gregory G., (2004b:14002)**
Tonoli, Fabio *see* **Schreyer, Frank-Olaf, (2004b:14002)**
Walther, Uli D-modules and cohomology of varieties. (*see* **2004b:14002**)

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Sturmfels, Bernd Ideals, varieties and Macaulay 2. (*see* **2004b:14002**)

14–06 Proceedings, conferences, collections, etc.

(Balaji, V.) *see* **Tribute to C. S. Seshadri, 2004f:14002**
(Basu, Saugata) *see* **Algorithms and quantitative real algebraic geometry, 2004c:14002**
(Böröczky, Károly, Jr.) *see* **Higher dimensional varieties and rational points, 2004e:14002**
(Brasselet, Jean-Paul) *see* **Conference: Resolution of Singularities and Noncommutative Geometry, 2004h:14003**
Buff, Xavier (*with* Fehrenbach, Jérôme; Lochak, Pierre; Schneps, Leila; Vogel, Pierre) ★ Moduli spaces of curves, mapping class groups and field theory. **2004i:14001**
(Cutkosky, Steven Dale) *see* **Vector bundles and representation theory, 2004a:14002**
(Edidin, Dan) *see* **Vector bundles and representation theory, 2004a:14002**

Fehrenbach, Jérôme *see* **Buff, Xavier et al., 2004i:14001**
(González-Vega, Laureano) *see* **Algorithms and quantitative real algebraic geometry, 2004c:14002**
(Greco, Silvio) *see* **Dedicated to Silvio Greco on the occasion of his 60th birthday**
(Kennedy, Gary) *see* **Conference: Resolution of Singularities and Noncommutative Geometry, 2004h:14003**
(Kollár, János) *see* **Higher dimensional varieties and rational points, 2004e:14002**
(Konno, Kazuhiro) *see* **Algebraic geometry in East Asia, 2004h:14002**
(Lakshmibai, V.) *see* **Tribute to C. S. Seshadri, 2004f:14002**
(Lauter, Kristin E.) *see* **Conference: Resolution of Singularities and Noncommutative Geometry, 2004h:14003**
(Lewis, James D.) *see* **Calabi-Yau varieties and mirror symmetry, 2004f:14001**
Lochak, Pierre *see* **Buff, Xavier et al., 2004i:14001**
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(Nagarajan, K. R.) *see* **Tribute to C. S. Seshadri, 2004f:14002**
(Nakayama, Noboru) *see* **Algebraic geometry in East Asia, 2004h:14002**
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14Axx Foundations

14A05 Relevant commutative algebra [see also 13–XX]

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14Bxx Local theory

14B05 Singularities [see also 14E15, 14H20, 14J17, 32Sxx, 58Kxx]

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14B07 Deformations of singularities [see also 14D15, 32S30]

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14B10 Infinitesimal methods [see also 13D10]

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14B12 Local deformation theory, Artin approximation, etc. [see also 13B40, 13D10]

Conrad, Brian (*with* de Jong, A. J.) Approximation of versal deformations. **2004a:14003**
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14B15 Local cohomology [see also 13D45, 32C36]

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14B25 Local structure of morphisms: étale, flat, etc. [see also 13B40]

Items with secondary classifications in 14B25

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14Cxx Cycles and subschemes

14C05 Parametrization (Chow and Hilbert schemes)

Arsie, Alessandro (*with* Brangani, S.) On non-rigid projective curves. (English summary) **2004k:14008**
Ballico, Edoardo The restricted cotangent algebra of curves in projective spaces. (English summary) **2004e:14011**
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Hartshorne, Robin Questions of connectedness of the Hilbert scheme of curves in $\mathbb{P}^3$. (*see* **2004j:00030**)
Iarrobino, Anthony, Jr. (*with* Yaméogo, Joachim) The family G_T of graded artinian quotients of $k[x, y]$ of given Hilbert function. (English summary) **2004m:14002**
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Occhetta, Gianluca Small contractions of smooth varieties. (English summary) **2004f:14029**
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14C15 Chow groups and rings

Brosnan, Patrick Steenrod operations in Chow theory. (English summary) **2004f:14008**
Feichtner, Eva Maria (*with* Yuzvinsky, Sergey) Chow rings of toric varieties defined by atomic lattices. (English summary) **2004k:14009**
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Guletskiĭ, Vladimir (*with* Pedrini, Claudio) The Chow motive of the Godeaux surface. (English summary) **2004b:14006**
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Iyer, Jaya N. The de Rham bundle on a compactification of moduli space of abelian varieties. (English summary) **2004a:14005**
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14C17 Intersection theory, characteristic classes, intersection multiplicities [see also 13H15]

Achilles, Rüdiger (*with* Manaresi, Mirella) Self-intersections of surfaces and Whitney stratifications. (English summary) **2004h:14009**
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Déglise, Frédéric Interprétation motivique de la formule d'excès d'intersection. (English and French summaries) [Motivic interpretation of the excess intersection formula] **2004k:14012**
Izawa, Takeshi (*with* Suwa, Tatsuo) Multiplicity of functions of singular varieties. (English summary) **2004f:14009**
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Wu, Xian[1] Limiting linear subspaces on non-reduced schemes. (English summary) **2004f:14011**
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Berthomieu, Alain Proof of Nadel's conjecture and direct image for relative K-theory. (English and French summaries) **2004k:19004**
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Nowak, Krzysztof Jan Remarks on the generalized index of an analytic improper intersection. (English summary) **2004c:32055**
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14C20 Divisors, linear systems, invertible sheaves

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Ballico, Edoardo Non-primitive linear systems on smooth algebraic curves and a generalization of Maroni theory. (English summary) **2004a:14006**
— General sets and base loci of very ample linear systems. (English summary)
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— Canonical and pluricanonical maps of non-Gorenstein reduced projective curves. (English summary) **2004m:14004**
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Beltrametti, Mauro C. (*with* Di Termini, Susanna) Higher dimensional polarized varieties with non-integral nef value. (English summary) **2004j:14006**
Buckley, Anita (*with* Zompatori, Marina) On the transversality of restricted linear systems. (English summary) **2004i:14008**
Chauvin, Stéphane (*with* De Volder, Cindy) Some very ample and base point free linear systems on generic rational surfaces. (English summary) **2004c:14007**
Coppens, Marc An asymptotic higher order very ampleness theorem for blowings-up of projective spaces at general points. (English summary) **2004f:14013**
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Fukuma, Yoshiaki On polarized surfaces (X, L) with $h^0(L) \geq 2$, $\kappa(X) \geq 0$, and $g(L) = q(X) + 1$. (English summary) **2004j:14007**
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Laface, Antonio (*with* Ugaglia, Luca) Quasi-homogeneous linear systems on $\mathbb{P}^2$ with base points of multiplicity 5. (English summary) **2004b:14008**
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Ran, Ziv Corrigendum: "The degree of the divisor of jumping rational curves" [Q. J. Math. **52** (2001), no. 3, 367–383; 1865907]. **2004m:14006**
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Iyer, Jaya N. Projective normality of abelian varieties. (English summary) **2004e:14070**
Keeler, Dennis S. Noncommutative ampleness for multiple divisors. (English summary) **2004f:16045**
Keem, Changho *see* **Cho, Kyung-Hye et al., 2004e:14051** *and* **Ballico, Edoardo et al., 2004h:14036**
Kim, SeonJa *see* **Ballico, Edoardo et al., 2004h:14036**
Kojima, Hideo A note on Sakai's theorem concerning polarized normal surfaces. (English summary) **2004e:14057**
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Langer, Adrian A note on Bogomolov's instability and Higgs sheaves. **2004b:14077**
— Logarithmic orbifold Euler numbers of surfaces with applications. **2004c:14069**
Lanteri, Antonio On the osculatory behavior of surface scrolls. (English summary) **2004k:14060**
Miranda, Rick *see* **Ciliberto, Ciro, 2004f:14043**
Monnier, Jean-Philippe Divisors on real curves. (English summary) **2004f:14080**

Naie, Daniel Variétés de Kummer généralisées. [Generalized Kummer varieties] **2004b:14081**
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Popa, Mihnea (*with* Roth, Mike) Stable maps and Quot schemes. **2004f:14044**
Roth, Mike *see* **Popa, Mihnea, 2004f:14044**
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Strickland, Elisabetta Lines in G/P. **2004d:14073**
Tironi, Andrea Luigi Reducible hyperplane sections of 4-folds: semi-nef decompositions with low sectional genera. (Italian summary) **2004i:14048**
Ucha Enriquez, José María *see* **Castro-Jiménez, Francisco Jesús, 2004m:14027**
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Voisin, Claire *see* **Aprodu, Marian, 2004a:14033**
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14C21 Pencils, nets, webs [see also 53A60]

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14C22 Picard groups

Ballico, Edoardo (*with* Kollár, János) The Picard group of singular curves. **2004m:14007**
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Arsie, Alessandro (*with* Vistoli, Angelo) Stacks of cyclic covers of projective spaces. (English summary) **2004m:14019**
Esteves, Eduardo (*with* Gatto, Letterio) A geometric interpretation and a new proof of a relation by Cornalba and Harris. (English summary) **2004k:14043**
Gatto, Letterio *see* **Esteves, Eduardo, 2004k:14043**
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14C25 Algebraic cycles

Brion, Michel The cone of effective one-cycles of certain G-varieties. (English summary) **2004m:14008**
Brosnan, Patrick A short proof of Rost nilpotence via refined correspondences. (English summary) **2004j:14010**
Consani, Caterina (*with* Kim, Minhyong) The Picard-Lefschetz formula and a conjecture of Kato: the case of Lefschetz fibrations. **2004a:14008**
Esnault, Hélène Varieties over a finite field with trivial Chow group of 0-cycles have a rational point. **2004e:14015**
Fabre, Bruno On the support of complete intersection zero-cycles. (English summary) **2004b:14009**
— On a problem of Griffiths: an inversion of Abel's theorem for families of zero-cycles. (English summary) **2004b:14010**
Green, Mark (*with* Griffiths, Phillip A.) An interesting 0-cycle. (English summary) **2004h:14012**
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Hain, Richard Iterated integrals and algebraic cycles: examples and prospects. **2004a:14009**
Ikeda, Atsushi Algebraic cycles and infinitesimal invariants on Jacobian varieties. (English summary) **2004h:14013**
Iyer, Jaya N. Indecomposable cycles on special quartics in $\mathbb{P}^3$. (English summary) **2004d:14002**
Karpenko, Nikita A. (*with* Merkur'ev, A. S.) Rost projectors and Steenrod operations. (English summary) **2004m:14009**
Kim, Minhyong *see* **Consani, Caterina, 2004a:14008**
Lawson, H. Blaine, Jr. Cycles and spectra. (English summary) **2004g:14012**
Levine, Marc N. A survey of algebraic cobordism. (English summary)
Madore, David A. Équivalence rationnelles sur les hypersurfaces cubiques sur les corps p-adiques. (English summary) [Rational equivalence on cubic hypersurfaces over p-adic fields] **2004a:14010**
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Rosenschon, Andreas (*with* Saito, Morihiko) Cycle map for strictly decomposable cycles. (English summary) **2004g:14013**
Saito, Morihiko *see* **Rosenschon, Andreas, 2004g:14013**

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Barbieri-Viale, Luca On algebraic 1-motives related to Hodge cycles. (English summary) **2004f:14018**
Bonnet, Jean-Paul Un isomorphisme motivique entre deux variétés homogènes projectives sous l'action d'un groupe de type G_2. (French summary) [A motivic isomorphism between two projective homogeneous varieties under the action of a group of type G_2] **2004m:14108**
Brosnan, Patrick Steenrod operations in Chow theory. (English summary) **2004f:14008**
Casagrande, Cinzia Contractible classes in toric varieties. **2004a:14052**
Colombo, Elisabetta The mixed Hodge structure on the fundamental group of hyperelliptic curves and higher cycles. (English summary) **2004f:14020**
Déglise, Frédéric Modules de cycles et motifs mixtes. (English and French summaries) [Cycle modules and mixed motives] **2004c:14036**
van Geemen, B. (*with* Izadi, E.) Half twists and the cohomology of hypersurfaces. (English summary) **2004e:14017**
Gordon, B. Brent (*with* Hanamura, Masaki; Murre, Jacob P.) Chow-Künneth projectors for modular varieties. (English and French summaries) **2004c:14005**
— (*with* Hanamura, Masaki; Murre, Jacob P.) Relative Chow-Künneth projectors for modular varieties. **2004g:14008**
Graber, Tom (*with* Pandharipande, Rahul) Constructions of nontautological classes on moduli spaces of curves. **2004e:14043**
Guletskiĭ, Vladimir (*with* Pedrini, Claudio) The Chow motive of the Godeaux surface. (English summary) **2004b:14006**
Hanamura, Masaki Polylogarithms and mixed motives.
— *see also* **Gordon, B. Brent et al., 2004c:14005** *and* **2004g:14008**
Huckleberry, Alan T. (*with* Wolf, Joseph A.) Schubert varieties and cycle spaces. (English summary) **2004j:14056**
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Karpenko, Nikita A. (*with* Merkur'ev, A. S.) Essential dimension of quadrics. (English summary) **2004f:11029**
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Khesin, Boris A. (*with* Roslyĭ, A. A.) Polar homology. (English summary) **2004k:14029**
Kucharz, Wojciech The conservation of number principle in real algebraic geometry. (English summary) **2004f:14089**
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Levine, Marc N. Algebraic cobordism. (English summary) **2004a:19003**
Matsumi, Pierre Class field theory of $\mathbb{F}_q[[X_1, X_2, X_3]]$. **2004e:11071**
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Murre, Jacob P. *see* **Gordon, B. Brent et al., 2004c:14005** *and* **2004g:14008**
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dos Santos, Pedro F. Algebraic cycles on real varieties and $\mathbb{Z}/2$-equivariant homotopy theory. **2004c:55026**
Tankeev, S. G. On the standard conjecture for complex abelian schemes over smooth projective curves. (Russian. Russian summary) **2004h:14014**
Wolf, Joseph A. *see* **Huckleberry, Alan T., 2004j:14056**

14C30 Transcendental methods, Hodge theory [see also 14D07, 32G20, 32J25, 32S35], Hodge conjecture

Abdulali, Salman Hodge structures on abelian varieties of type IV. (English summary) **2004k:14013**
Barbieri-Viale, Luca (*with* Srinivas, Vasudevan) Albanese and Picard 1-motives. (English and French summaries) **2004d:14003**
— On algebraic 1-motives related to Hodge cycles. (English summary) **2004f:14018**
Bloch, Spencer J. (*with* Srinivas, Vasudevan) Enriched Hodge structures. (English summary) **2004f:14019**
Colombo, Elisabetta The mixed Hodge structure on the fundamental group of hyperelliptic curves and higher cycles. (English summary) **2004f:14020**
El Zein, Fouad (*with* Némethi, András) On the weight filtration of the homology of algebraic varieties: the generalized Leray cycles. (English summary) **2004e:14016**
van Geemen, B. (*with* Izadi, E.) Half twists and the cohomology of hypersurfaces. (English summary) **2004e:14017**
Hazama, Fumio On the general Hodge conjecture for abelian varieties of CM-type. (English summary) **2004k:14014**
Izadi, E. *see* **van Geemen, B., 2004e:14017**
Kato, Kazuya (*with* Usui, Sampei) Borel-Serre spaces and spaces of SL(2)-orbits. **2004f:14021**
Kurke, Herbert Die Hodge-Vermutung. [The Hodge conjecture]
Némethi, András *see* **El Zein, Fouad, 2004e:14016**
Saito, Morihiko Refined cycle maps. (English summary) **2004d:14004**
Simpson, Carlos Algebraic aspects of higher nonabelian Hodge theory. **2004m:14010**
Spandaw, J. G. Noether-Lefschetz problems for degeneracy loci. (English summary) **2004e:14018**
Srinivas, Vasudevan *see* **Barbieri-Viale, Luca, 2004d:14003** *and* **Bloch, Spencer J., 2004f:14019**
Tankeev, S. G. On the standard conjecture for complex abelian schemes over smooth projective curves. (Russian. Russian summary) **2004h:14014**
Usui, Sampei *see* **Kato, Kazuya, 2004f:14021**
Wildeshaus, Jörg Modules de Hodge mixtes à croisements normaux. (English and French summaries) [Mixed Hodge modules of normal crossing type] **2004j:14011**

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Cushman, Matthew Morphisms of curves and the fundamental group. (English summary) **2004b:14043**
Denef, Jan (*with* Loeser, François) Motivic integration, quotient singularities and the McKay correspondence. (English summary) **2004e:14010**
Esnault, Hélène (*with* Wan, Daqing) Hodge type of the exotic cohomology of complete intersections. (English and French summaries) **2004c:14034**
Gaveau, Bernard *see* **Ancona, Vincenzo, 2004c:32015**
Green, Mark (*with* Griffiths, Phillip A.) An interesting 0-cycle. (English summary) **2004h:14012**
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Griffiths, Phillip A. *see* **Green, Mark, 2004g:19003** *and* **2004h:14012**
Katzarkov, Ludmil (*with* Pantev, Tony) Nonabelian (p, p) classes. (English summary) **2004e:14020**
Loeser, François *see* **Denef, Jan, 2004e:14010**
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Poletaeva, E. Superconformal algebras and Lie superalgebras of the Hodge theory. (English summary) **2004b:32031**
Ramachandran, Niranjan One-motives and a conjecture of Deligne. (English summary) **2004i:14051**
(Schneps, Leila) *see* **Voisin, Claire, 2004d:32020**
Siu, Yum-Tong Some recent transcendental techniques in algebraic and complex geometry. (English summary) **2004g:32022**
Voisin, Claire ★ Hodge theory and complex algebraic geometry. I. **2004d:32020**

Wan, Daqing *see* **Esnault, Hélène, 2004c:14034**
Wang, Chin-Lung Cohomology theory in birational geometry. (English summary) **2004d:14008**
Weber, Andrzej Pure homology of algebraic varieties. (English summary) **2004m:14036**
Wojtkowiak, Zdzisław Mixed Hodge structures and iterated integrals. I. **2004i:19006**
Yasuda, Takehiko Twisted jets, motivic measures and orbifold cohomology. (English summary) **2004m:14037**

14C34 Torelli problem [see also 32G20]

Items with secondary classifications in 14C34

Biswas, Indranil (*with* Gómez, Tomás L.) A Torelli theorem for the moduli space of Higgs bundles on a curve. (English summary) **2004d:14046**
— On the moduli space of τ-connections on a compact Riemann surface. (English summary) **2004m:14014**
Gómez, Tomás L. *see* **Biswas, Indranil, 2004d:14046**
Guàrdia, Jordi Jacobian nullwerte and algebraic equations. (English summary) **2004a:14032**
Kloosterman, Remke Extremal elliptic surfaces and infinitesimal Torelli. **2004m:14077**

14C35 Applications of methods of algebraic K-theory [see also 19Exx]

Borne, Niels Cohomologie des G-faisceaux en caractéristique positive. (English and French summaries) [Cohomology of G-sheaves in positive characteristic] **2004i:14010**
Green, Mark (*with* Griffiths, Phillip A.) The regulator map for a general curve. **2004b:14011**
Griffiths, Phillip A. *see* **Green, Mark, 2004b:14011**
Takeda, Yuichiro Higher arithmetic K-theory. (Japanese)

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Berthomieu, Alain Proof of Nadel's conjecture and direct image for relative K-theory. (English and French summaries) **2004k:19004**
Denef, Jan (*with* Loeser, François) Motivic integration, quotient singularities and the McKay correspondence. (English summary) **2004e:14010**
Edidin, Dan (*with* Graham, William A.) Riemann-Roch for quotients and Todd classes of simplicial toric varieties. (English summary) **2004h:14015**
Friedlander, Eric M. (*with* Suslin, Andrei) The spectral sequence relating algebraic K-theory to motivic cohomology. (English and French summaries) **2004b:19006**
— (*with* Walker, Mark E.) Rational isomorphisms between K-theories and cohomology theories. (English summary) **2004j:19002**
Fujiwara, Kazuhiro A proof of the absolute purity conjecture (after Gabber). **2004d:14015**
(Gabber, Ofer) *see* **Fujiwara, Kazuhiro, 2004d:14015**
Givental, Alexander (*with* Lee, Yuan-Pin) Quantum K-theory on flag manifolds, finite-difference Toda lattices and quantum groups. **2004g:14063**
Graham, William A. *see* **Edidin, Dan, 2004h:14015**
Guseĭn-Zade, S. M. (*with* Luengo, Ignacio; Melle Hernández, A.) A power structure over the Grothendieck ring of varieties. (English summary) **2004m:14038**
Joshua, Roy Riemann-Roch for algebraic stacks. I. (English summary) **2004e:14008**
Lee, Yuan-Pin *see* **Givental, Alexander, 2004g:14063**
Lejeune-Jalabert, Monique (*with* Reguera, Ana J.) The Denef-Loeser series for toric surface singularities. (English summary) **2004m:14001**
Loeser, François *see* **Denef, Jan, 2004e:14010**
Luengo, Ignacio *see* **Guseĭn-Zade, S. M. et al., 2004m:14038**
Melle Hernández, A. *see* **Guseĭn-Zade, S. M. et al., 2004m:14038**
Reguera, Ana J. *see* **Lejeune-Jalabert, Monique, 2004m:14001**
Suslin, Andrei *see* **Friedlander, Eric M., 2004b:19006**
Veys, Willem Stringy zeta functions for $\mathbb{Q}$-Gorenstein varieties. (English summary) **2004m:14075**
Walker, Mark E. *see* **Friedlander, Eric M., 2004j:19002**

14C40 Riemann-Roch theorems [see also 19E20, 19L10]

Akca, I. I. The Riemann-Roch theorem on Riemann surfaces. (English summary)
Beilinson, Aleksandr A. (*with* Bloch, Spencer J.; Esnault, Hélène) ε-factors for Gauss-Manin determinants. (English summary) **2004m:14011**
Bloch, Spencer J. (*with* Esnault, Hélène) Relative algebraic differential characters. (English summary) **2004j:14012**
— *see also* **Beilinson, Aleksandr A. et al., 2004m:14011**
Borne, Niels Une formule de Riemann-Roch équivariante pour les courbes. (French summary) [An equivariant Riemann-Roch formula for curves] **2004f:14022**
Edidin, Dan (*with* Graham, William A.) Riemann-Roch for quotients and Todd classes of simplicial toric varieties. (English summary) **2004h:14015**
Esnault, Hélène Characteristic classes of flat bundles and determinant of the Gauss-Manin connection. **2004b:14012**
— *see also* **Bloch, Spencer J., 2004j:14012** *and* **Beilinson, Aleksandr A. et al., 2004m:14011**
García Zamora, Alexis The Reimann-Roth theorem for curves. (Spanish) (*see* **2004c:14001**)
Graham, William A. *see* **Edidin, Dan, 2004h:14015**

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Bini, Gilberto Generalized Hodge classes on the moduli space of curves. (English summary) **2004k:14042**
Joshua, Roy Riemann-Roch for algebraic stacks. I. (English summary) **2004e:14008**
Levine, Marc N. A survey of algebraic cobordism. (English summary)
Nieper-Wisskirchen, Marc A. Hirzebruch-Riemann-Roch formulae on irreducible symplectic Kähler manifolds. (English summary) **2004e:53069**
Suwa, Tatsuo Characteristic classes of singular varieties [translation of Sūgaku **52** (2000), no. 4, 376–393]. (*see* **2004g:00024**)
Syzdek, Wioletta Nagata submaximal curves on $\mathbb{P}^1 \times \mathbb{P}^1$. (English summary) **2004f:14015**

14C99 None of the above, but in this section

Items with secondary classifications in 14C99

Beilinson, Aleksandr A. (*with* Bloch, Spencer J.; Esnault, Hélène) ε-factors for Gauss-Manin determinants. (English summary) **2004m:14011**
Bloch, Spencer J. *see* **Beilinson, Aleksandr A. et al., 2004m:14011**
Esnault, Hélène *see* **Beilinson, Aleksandr A. et al., 2004m:14011**

14Dxx Families, fibrations

14D05 Structure of families (Picard-Lefschetz, monodromy, etc.)

A'Campo, Norbert Monodromy of real isolated singularities. (English summary) **2004c:14011**
Artal Bartolo, Enrique (*with* Carmona Ruber, Jorge; Cogolludo Agustín, José Ignacio) Braid monodromy and topology of plane curves. (English summary) **2004k:14015**
Carmona Ruber, Jorge *see* **Artal Bartolo, Enrique et al., 2004k:14015**
Cogolludo Agustín, José Ignacio *see* **Artal Bartolo, Enrique et al., 2004k:14015**
Galligo, André (*with* González-Vega, Laureano; Lombardi, Henri) Continuity properties for flat families of polynomials. I. Continuous parametrizations. (English summary) **2004f:14023**
Golyshev, V. V. The geometricity problem and modularity of some Riemann-Roch variations. (Russian) **2004h:14016**
González-Vega, Laureano *see* **Galligo, André et al., 2004f:14023**
Lombardi, Henri *see* **Galligo, André et al., 2004f:14023**
Pagot, Guillaume $\mathbb{F}_p$-espaces vectoriels de formes différentielles logarithmiques sur la droite projective. (English summary) [$\mathbb{F}_p$-vector spaces of logarithmic differential forms on the projective line] **2004b:14013**
Sun, Xiaotao (*with* Tan, Sheng-Li; Zuo, Kang[1]) Families of $K3$ surfaces over curves reaching the Arakelov-Yau type upper bounds and modularity. **2004h:14017**
Tan, Sheng-Li *see* **Sun, Xiaotao et al., 2004h:14017**
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Items with secondary classifications in 14D05

Aleksandrov, Aleksandr G. Moduli of logarithmic connections along a free divisor. (English summary) **2004d:32040**
Asakura, Masanori A criterion of exactness of the Clemens-Schmid sequences arising from semi-stable families of open curves. **2004m:14029**
Bogomolov, Fedor (*with* Tschinkel, Yuri) Monodromy of elliptic surfaces. (English summary) **2004j:14045**
Dimca, Alexandru (*with* Némethi, András) Thom-Sebastiani construction and monodromy of polynomials. (English summary) **2004c:32059**
Doran, Charles F. Algebro-geometric isomonodromic deformations linking Hauptmoduls: variation of the mirror map. (English summary) **2004d:11027**
Franco, Sebastián (*with* Hanany, Amihay) Toric duality, Seiberg duality and Picard-Lefschetz transformations. (English summary) **2004h:81233**
Hanany, Amihay *see* **Franco, Sebastián, 2004h:81233**
Illusie, Luc Sur la formule de Picard-Lefschetz. (French summary) [On the Picard-Lefschetz formula] **2004h:14028**
Katzarkov, Ludmil (*with* Pantev, Tony; Simpson, Carlos) Density of monodromy actions on non-abelian cohomology. (English summary) **2004j:14013**
Long, Ling On a Shioda-Inose structure of a family of $K3$ surfaces. (English summary) **2004m:14079**
Némethi, András *see* **Dimca, Alexandru, 2004c:32059**
Pantev, Tony *see* **Katzarkov, Ludmil et al., 2004j:14013**
Peters, Chris A. M. (*with* Steenbrink, J. H. M.) Monodromy of variations of Hodge structure. (English summary) **2004c:14014**
Shimada, Ichiro On the Zariski-van Kampen theorem. (English summary) **2004a:14024**
Simpson, Carlos *see* **Katzarkov, Ludmil et al., 2004j:14013**
Steenbrink, J. H. M. *see* **Peters, Chris A. M., 2004c:14014**
Tschinkel, Yuri *see* **Bogomolov, Fedor, 2004j:14045**

14D06 Fibrations, degenerations

Amram, Meirav (*with* Teicher, Mina) On the degeneration, regeneration and braid monodromy of $T \times T$. (English summary) **2004m:14012**
Bridgeland, Tom (*with* Maciocia, Antony) Fourier-Mukai transforms for $K3$ and elliptic fibrations. (English summary) **2004e:14019**
Cai, Jin-Xing Numerical criteria for certain fiber spaces to be birationally trivial. (English summary) **2004c:14012**
Fu, Baohua Abelian fibrations on $S^{[n]}$. (English and French summaries) **2004k:14016**
Ishizaka, Mizuho Monodromies of hyperelliptic families of genus three curves. (English summary) **2004m:14013**
de Jong, A. J. (*with* Starr, Jason) Every rationally connected variety over the function field of a curve has a rational point. (English summary) **2004h:14018**
Lee, Yongnam Topological Euler numbers in a semi-stable degeneration of surfaces. (English summary) **2004a:14011**
Maciocia, Antony *see* **Bridgeland, Tom, 2004e:14019**
Nakayama, Noboru Local structure of an elliptic fibration. (English summary) **2004b:14014**
Namba, Makoto (*with* Takai, Maki) Degenerating families of finite branched coverings. **2004f:14024**
Starr, Jason *see* **de Jong, A. J., 2004h:14018**
Takai, Maki *see* **Namba, Makoto, 2004f:14024**
Teicher, Mina *see* **Amram, Meirav, 2004m:14012**

Yamaki, Kazuhiko A direct proof of Moriwaki's inequality for semistably fibered surfaces and its generalization. **2004b:14015**

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Amram, Meirav (*with* Teicher, Mina) The fundamental group of the complement of the branch curve of $T \times T$ in $\mathbb{C}^2$. **2004k:14028**
Ashikaga, Tadashi (*with* Konno, Kazuhiro) Global and local properties of pencils of algebraic curves. **2004f:14051**
Consani, Caterina (*with* Kim, Minhyong) The Picard-Lefschetz formula and a conjecture of Kato: the case of Lefschetz fibrations. **2004a:14008**
Kim, Minhyong *see* **Consani, Caterina**, **2004a:14008**
Konno, Kazuhiro *see* **Ashikaga, Tadashi**, **2004f:14051**
Li, Jun[1] Moduli spaces associated to a singular variety and the moduli of bundles over universal curves. **2004d:14005**
Matsushita, Daisuke Holomorphic symplectic manifolds and Lagrangian fibrations. (English summary) **2004c:32040**
Park, Jihun A note on del Pezzo fibrations of degree 1. (English summary) **2004k:14021**
Stevens, Jan Semistable $K3$-surfaces with icosahedral symmetry. (English summary) **2004g:14038**
Teicher, Mina *see* **Amram, Meirav**, **2004k:14028**
Zucconi, Francesco Generalized hyperelliptic surfaces. (English summary) **2004g:14039**

14D07 Variation of Hodge structures [see also 32G20]

Burgos, José Ignacio (*with* Wildeshaus, Jörg) Modules de Hodge sur les variétés de Shimura, et leur dégénérescence dans la compactification de Baily-Borel. (English and French summaries) [Hodge modules on Shimura varieties, and their degeneration in the Baily-Borel compactification] **2004c:14013**
Katzarkov, Ludmil (*with* Pantev, Tony) Nonabelian (p, p) classes. (English summary) **2004e:14020**
Pantev, Tony *see* **Katzarkov, Ludmil**, **2004e:14020**
Peters, Chris A. M. (*with* Steenbrink, J. H. M.) Monodromy of variations of Hodge structure. (English summary) **2004c:14014**
Steenbrink, J. H. M. *see* **Peters, Chris A. M.**, **2004c:14014**
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14D15 Formal methods; deformations [see also 13D10, 14B07, 32Gxx]

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14D21 Applications of vector bundles and moduli spaces in mathematical physics (twistor theory, instantons, quantum field theory)

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14D22 Fine and coarse moduli spaces

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14Exx Birational geometry

14E05 Rational and birational maps

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14E07 Birational automorphisms, Cremona group and generalizations

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14E08 Rationality questions

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14E15 Global theory and resolution of singularities [see also 14B05, 32S20, 32S45]

Abhyankar, Shreeram S. Resolution of singularities and modular Galois theory. (English summary) (*see* **2004f:00009**)
Bravo, Ana (*with* Villamayor U., Orlando E.) A strengthening of resolution of singularities in characteristic zero. **2004c:14020**
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Gurjar, R. V. On a generalization of Mumford's result and related question. (English summary) **2004d:14010**
Kedlaya, Kiran S. Étale covers of affine spaces in positive characteristic. (English and French summaries) **2004a:14015**
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14E22 Ramification problems [see also 11S15]

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14E25 Embeddings

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14E30 Minimal model program (Mori theory, extremal rays)

Ambro, Florin Inversion of adjunction for non-degenerate hypersurfaces. (English summary) **2004h:14026**
— Quasi-log varieties. (English summary) **2004f:14027**
Andreatta, Marco (*with* Occhetta, Gianluca) Extending extremal contractions from an ample section. (English summary) **2004a:14017**
— (*with* Occhetta, Gianluca) Special rays in the Mori cone of a projective variety. (English summary) **2004d:14011**
— (*with* Mella, Massimiliano) Morphisms of projective varieties from the viewpoint of minimal theory. **2004h:14027**
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14Fxx (Co)homology theory [see also 13Dxx]

14F05 Vector bundles, sheaves, related constructions [see also 14H60, 14J60, 18F20, 32Lxx, 46M20]

Biswas, Indranil (*with* Gómez, Tomás L.) Restriction theorems for principal bundles. (English summary) **2004j:14018**
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— (*with* Fløystad, Gunnar; Schreyer, Frank-Olaf) Sheaf cohomology and free resolutions over exterior algebras. (English summary) **2004f:14031**
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14F10 Differentials and other special sheaves [see also 13Nxx, 32C38]

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Caro, Daniel Cohérence différentielle des F-isocristaux unités. (English and French summaries) [Differential coherence of unit-root F-isocrystals] **2004m:14030**

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14F17 Vanishing theorems [see also 32L20]

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14F20 Étale and other Grothendieck topologies and cohomologies

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Ghorpade, Sudhir R. (*with* Lachaud, Gilles) Étale cohomology, Lefschetz theorems and number of points of singular varieties over finite fields. (English summary) **2004d:11049**
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Panin, I. A. The equicharacteristic case of the Gersten conjecture. (English summary) **2004m:19005**
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14F22 Brauer groups of schemes [see also 12G05, 16K50]

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Gonzalez-Aviles, Cristian D. Brauer groups and Tate-Shafarevich groups. (English summary) **2004d:11051**
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Kresch, Andrew Hodge-theoretic obstruction to the existence of quaternion algebras. (English summary) **2004c:16029**
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14F25 Classical real and complex cohomology

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El Zein, Fouad (*with* Némethi, András) On the weight filtration of the homology of algebraic varieties: the generalized Leray cycles. (English summary) **2004e:14016**
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14F30 p-adic cohomology, crystalline cohomology

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Chiarellotto, Bruno (*with* Tsuzuki, Nobuo) Cohomological descent of rigid cohomology for étale coverings. **2004d:14016**
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Bannai, Kenichi Syntomic cohomology as a p-adic absolute Hodge cohomology. (English summary) **2004e:14037**
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Grosse-Klönne, Elmar On families of pure slope L-functions. (English summary) **2004k:11100**
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Kottwitz, Robert E. (*with* Rapoport, Michael) On the existence of F-crystals. (English summary) **2004c:11221**
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Wang, Chin-Lung Cohomology theory in birational geometry. (English summary) **2004d:14008**
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14F35 Homotopy theory; fundamental groups [see also 14H30]

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Noohi, B. Fundamental groups of algebraic stacks. (English summary) **2004k:14003**
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14F40 de Rham cohomology [see also 14C30, 32C35, 32L10]

Esnault, Hélène (*with* Wan, Daqing) Hodge type of the exotic cohomology of complete intersections. (English and French summaries) **2004c:14034**
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Bonnet, Philippe Relative cohomology of polynomial mappings. (English summary) **2004f:32036**
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14F42 Motivic cohomology

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Dundas, Bjørn Ian (*with* Röndigs, Oliver; Østvær, Paul Arne) Motivic functors. (English summary) **2004m:55011**
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Goncharov, A. B. Explicit regulator maps on polylogarithmic motivic complexes. **2004b:11095**
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Kahn, Bruno (*with* Laghribi, Ahmed) A second descent problem for quadratic forms. (English summary) **2004m:11052**
Kisin, Mark (*with* Wortmann, Sigrid) A note on Artin motives. (English summary) **2004d:14018**
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Østvær, Paul Arne *see* **Dundas, Bjørn Ian et al.**, **2004m:55011**
Röndigs, Oliver *see* **Dundas, Bjørn Ian et al.**, **2004m:55011**
Snaith, Victor P. The weight-two motivic complex of equicharacteristic local fields. (English summary) **2004i:19007**
Srinivas, Vasudevan *see* **Barbieri-Viale, Luca**, **2004d:14003**
Suslin, Andrei *see* **Friedlander, Eric M.**, **2004b:19006**
Wortmann, Sigrid *see* **Kisin, Mark**, **2004d:14018**

14F43 Other algebro-geometric (co)homologies (e.g., intersection, equivariant, Lawson, Deligne (co)homologies)

Bannai, Kenichi Syntomic cohomology as a p-adic absolute Hodge cohomology. (English summary) **2004e:14037**
Braden, Tom Hyperbolic localization of intersection cohomology. (English summary) **2004f:14037**
Denef, Jan (*with* Loeser, François) Geometry on arc spaces of algebraic varieties. (English summary) **2004c:14037**
Fujiwara, Kazuhiro Independence of l for intersection cohomology (after Gabber). **2004c:14038**
(Gabber, Ofer) *see* **Fujiwara, Kazuhiro**, **2004c:14038**
Guillén Santos, Francisco (*with* Navarro Aznar, Vicente) Un critère d'extension des foncteurs définis sur les schémas lisses. [An extension criterion for functors defined on smooth schemes] **2004i:14020**
van Hamel, Joost Towards an intersection homology theory for real algebraic varieties. **2004m:14034**
Jardine, J. F. Finite group torsors for the qfh topology. (English summary) **2004e:14038**
(van der Kallen, Wilberd) *see* **Springer, T. A.**, **2004a:14025**
Katz, Nicholas M. A semicontinuity result for monodromy under degeneration. **2004c:14039**
Khesin, Boris A. (*with* Roslyĭ, A. A.) Polar homology. (English summary) **2004k:14029**
Kiem, Young-Hoon Intersection cohomology of quotients of nonsingular varieties. **2004m:14035**
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Terashima, Yuji Higher dimensional parallel transports for Deligne cocycles. **2004e:14039**
Totaro, Burt Topology of singular algebraic varieties. (English summary) **2004k:14030**
Weber, Andrzej Formality of equivariant intersection cohomology of algebraic varieties. (English summary) **2004c:14040**
— Pure homology of algebraic varieties. (English summary) **2004m:14036**
Woolf, Jonathan The decomposition theorem and the intersection cohomology of quotients in algebraic geometry. (English summary) **2004h:14031**
Yasuda, Takehiko Twisted jets, motivic measures and orbifold cohomology. (English summary) **2004m:14037**

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Chiarellotto, Bruno (*with* Tsuzuki, Nobuo) Cohomological descent of rigid cohomology for étale coverings. **2004d:14016**
Friedlander, Eric M. (*with* Walker, Mark E.) Rational isomorphisms between K-theories and cohomology theories. (English summary) **2004j:19002**
Goncharov, A. B. Explicit regulator maps on polylogarithmic motivic complexes. **2004b:11095**
Goresky, Mark (*with* MacPherson, Robert D.) The topological trace formula. (English summary) **2004h:11048**
Gudiel Rodríguez, Félix (*with* Narváez Macarro, Luis) Explicit models for perverse sheaves. (English summary) **2004m:18010**
Kashiwara, Masaki (*with* Tanisaki, Toshiyuki) Parabolic Kazhdan-Lusztig polynomials and Schubert varieties. (English summary) **2004a:14049**
(Knutson, Allen) *see* **Rosu, Ioanid**, **2004f:19011**
Lawson, H. Blaine, Jr. Cycles and spectra. (English summary) **2004g:14012**
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Narváez Macarro, Luis *see* **Gudiel Rodríguez, Félix**, **2004m:18010**
Rosu, Ioanid Equivariant K-theory and equivariant cohomology. (English summary) **2004f:19011**
Ruan, Yongbin Stringy orbifolds. **2004e:53136**
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Trihan, Fabien Cohomologie syntomique des F-T-cristaux. (English summary) [Syntomic cohomology of F-T-crystals] **2004f:14034**
Tsuzuki, Nobuo *see* **Chiarellotto, Bruno**, **2004d:14016**
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14F45 Topological properties

Nori, Madhav V. The integral of powers of a function. **2004g:14023**

14F99 None of the above, but in this section

Items with secondary classifications in 14F99

Bădescu, Lucian Formal functions in algebraic geometry. **2004h:14045**
Behrend, Kai A. (*with* O'Halloran, A.) On the cohomology of stable map spaces. (English summary) **2004k:14002**
— Derived l-adic categories for algebraic stacks. (English summary) **2004e:14006**
Gille, Stefan Homotopy invariance of coherent Witt groups. (English summary) **2004f:19009**
O'Halloran, A. *see* **Behrend, Kai A.**, **2004k:14002**

14Gxx Arithmetic problems. Diophantine geometry [see also 11Dxx, 11Gxx]

14G05 Rational points

Caporaso, Lucia Remarks about uniform boundedness of rational points over function fields. (English summary) **2004d:14019**
Colliot-Thélène, Jean-Louis (*with* Madore, David A.) Surfaces de del Pezzo sans point rationnel sur un corps de dimension cohomologique un. (English and French summaries) [Rational-point-free del Pezzo surfaces over a field of cohomological dimension one] **2004k:14031**
Fakhruddin, Najmuddin Questions on self maps of algebraic varieties. (English summary) **2004f:14038**
Hassett, Brendan Potential density of rational points on algebraic varieties. **2004j:14021**
Heath-Brown, D. R. (*with* Skorobogatov, A. N.) Rational solutions of certain equations involving norms. **2004b:14033**
Kim, Minhyong Relating decision and search algorithms for rational points on curves of higher genus. (English summary) **2004f:14039**
Madore, David A. *see* **Colliot-Thélène, Jean-Louis**, **2004k:14031**
Noguchi, Junjiro An arithmetic property of Shirosaki's hyperbolic projective hypersurface. (English summary) **2004k:14032**
Peyre, Emmanuel Points de hauteur bornée, topologie adélique et mesures de Tamagawa. (English and French summaries) [Points of bounded height, adelic topology and Tamagawa measures] **2004i:14021**
Skorobogatov, A. N. *see* **Heath-Brown, D. R.**, **2004b:14033**
Tschinkel, Yuri Fujita's program and rational points. **2004g:14024**

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Bazylev, D. F. Rational points of elliptic curves of rank zero. (Russian. English and Russian summaries)
Broberg, Niklas Rational points on finite covers of $\mathbb{P}^1$ and $\mathbb{P}^2$. (English summary) **2004c:11110**
— (*with* Salberger, Per) Counting rational points on threefolds. (English summary) **2004i:11062**
Browning, T. D. Counting rational points on cubic and quartic surfaces. **2004b:11092**
Campana, Frédéric (*with* Peternell, Thomas; Pukhlikov, A. V.) The generalized Tsen theorem and rationally connected Fano fibrations. (Russian. Russian summary) **2004h:14046**
Chen, Imin (*with* Cummins, C. J.) Elliptic curves with nonsplit mod 11 representations. (English summary) **2004m:11083**
Cummins, C. J. *see* **Chen, Imin**, **2004m:11083**
Dalawat, Chandan Singh Arithmetic on curves. (English summary) (*see* **2004m:11085**)
Dvornicich, Roberto (*with* Zannier, Umberto M.) An analogue for elliptic curves of the Grunwald-Wang example. (English and French summaries) **2004k:11088**
Esnault, Hélène Varieties over a finite field with trivial Chow group of 0-cycles have a rational point. **2004e:14015**
Faltings, Gerd A new application of Diophantine approximations. **2004b:11100**
Gan, Wee Teck (*with* Oh, Hee) Equidistribution of integer points on a family of homogeneous varieties: a problem of Linnik. (English summary) **2004e:22014**
Garcia, Arnaldo (*with* Stichtenoth, Henning; Rück, Hans-Georg) On tame towers over finite fields. (English summary) **2004e:11133**
Heath-Brown, D. R. Rational points and analytic number theory. (English summary) **2004k:11162**
Ih, Su-Ion Height uniformity for algebraic points on curves. (English summary) **2004g:11052**
Lafon, Guillaume Une surface d'Enriques sans point sur $\mathbb{C}((t))$. (English and French summaries) [An Enriques surface without a rational point over $\mathbb{C}((t))$] **2004k:14035**
(Lauter, Kristin E.) *see* **Savitt, David**, **2004i:11059**

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Peyre, Emmanuel Points de hauteur bornée et géométrie des variétés (d'après Y. Manin et al.). (French summary) [Points of bounded height and geometry of varieties (following Y. Manin et al.)] **2004b:11094**
— Counting points on varieties using universal torsors. (English summary) **2004m:11103**
Poulakis, Dimitrios Bounds for the smallest integer point of a rational curve. **2004a:11052**
Pukhlikov, A. V. *see* **Campana, Frédéric et al.**, **2004h:14046**
Rück, Hans-Georg *see* **Garcia, Arnaldo et al.**, **2004e:11133**
Salberger, Per *see* **Broberg, Niklas**, **2004i:11062**
Savitt, David The maximum number of points on a curve of genus 4 over $\mathbb{F}_8$ is 25. (English summary) **2004i:11059**
Schröer, Stefan The strong Franchetta conjecture in arbitrary characteristics. (English summary) **2004c:14087**
Shalika, Joseph A. (*with* Takloo-Bighash, Ramin; Tschinkel, Yuri) Rational points on compactifications of semi-simple groups of rank 1. (English summary) **2004m:11104**
Shlapentokh, Alexandra A ring version of Mazur's conjecture on topology of rational points. **2004j:11147**
Stichtenoth, Henning *see* **Garcia, Arnaldo et al.**, **2004e:11133**
Swinnerton-Dyer, H. P. F. Diophantine equations: progress and problems. (English summary) **2004k:11102**
Takloo-Bighash, Ramin *see* **Shalika, Joseph A. et al.**, **2004m:11104**
Tschinkel, Yuri *see* **Shalika, Joseph A. et al.**, **2004m:11104**
Tzermias, Pavlos Parametrization of low-degree points on a Fermat curve. **2004b:11091**
— Low-degree points on Hurwitz-Klein curves. (English summary) **2004j:11061**
Watanabe, Takao[1] The Hardy-Littlewood property of flag varieties. (English summary) **2004d:11052**
Yamagishi, Hizuru On the solutions of certain diagonal quadratic equations and Lang's conjecture. **2004a:11025**
Zannier, Umberto M. *see* **Dvornicich, Roberto**, **2004k:11088**

14G10 Zeta-functions and related questions [see also 11G40] (Birch-Swinnerton-Dyer conjecture)

Belkale, Prakash (*with* Brosnan, Patrick) Matroids, motives, and a conjecture of Kontsevich. (English summary) **2004g:14025**
Brosnan, Patrick *see* **Belkale, Prakash**, **2004g:14025**
Guseĭn-Zade, S. M. (*with* Luengo, Ignacio; Melle Hernández, A.) A power structure over the Grothendieck ring of varieties. (English summary) **2004m:14038**
Luengo, Ignacio *see* **Guseĭn-Zade, S. M. et al.**, **2004m:14038**
Melle Hernández, A. *see* **Guseĭn-Zade, S. M. et al.**, **2004m:14038**

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Artal Bartolo, Enrique (*with* Cassou-Noguès, Pierrette; Luengo, Ignacio; Melle Hernández, A.) Monodromy conjecture for some surface singularities. (English and French summaries) **2004e:32030**
Aubry, Yves (*with* Perret, Marc) Divisibility of zeta functions of curves in a covering. (English summary) **2004m:11092**
Candelas, Philip (*with* De La Ossa, Xenia; Rodriguez-Villegas, Fernando) Calabi-Yau manifolds over finite fields. II. (English summary) **2004m:11095**
Cassou-Noguès, Pierrette *see* **Artal Bartolo, Enrique et al.**, **2004e:32030**
De La Ossa, Xenia *see* **Candelas, Philip et al.**, **2004m:11095**
Fu, Lei[1] (*with* Wan, Daqing) Total degree bounds for Artin L-functions and partial zeta functions. **2004b:11088**
— (*with* Wan, Daqing) Moment L-functions, partial L-functions and partial exponential sums. **2004k:11099**
Grosse-Klönne, Elmar On families of pure slope L-functions. (English summary) **2004k:11100**
Hoornaert, Kathleen Newton polyhedra and the poles of Igusa's local zeta function. (English summary) **2004g:11109**
— Newton polyhedra, unstable faces and the poles of Igusa's local zeta function. (English summary) **2004m:11197**
Kaczorowski, Jerzy Fourth millennium problem: the Riemann hypothesis. (Polish) **2004h:11070**
Lauder, Alan G. B. Computing zeta functions of Kummer curves via multiplicative characters. (English summary) **2004g:11113**
Luengo, Ignacio *see* **Artal Bartolo, Enrique et al.**, **2004e:32030**
Melle Hernández, A. *see* **Artal Bartolo, Enrique et al.**, **2004e:32030**
Naumann, Niko On the irreducibility of the two variable zeta-function for curves over finite fields. (English and French summaries) **2004e:11067**
Perret, Marc *see* **Aubry, Yves**, **2004m:11092**
Rodriguez-Villegas, Fernando *see* **Candelas, Philip et al.**, **2004m:11095**
Tsfasman, M. A. Asymptotic properties of global fields. (English summary) **2004m:11189**
— (*with* Vlăduţ, S. G.) Infinite global fields and the generalized Brauer-Siegel theorem. (English summary) **2004f:11132**
Vlăduţ, S. G. *see* **Tsfasman, M. A.**, **2004f:11132**
Wan, Daqing *see* **Fu, Lei[1]**, **2004b:11088** *and* **2004k:11099**
Weng, Lin Stability and new non-abelian zeta functions. (English summary) **2004g:11081**

14G15 Finite ground fields

Ballico, Edoardo (*with* Cossidente, Antonio; Siciliano, Alessandro) External flats to varieties in symmetric product spaces over finite fields. (English summary) **2004c:14041**
— (*with* Cossidente, Antonio) Rational complete intersections. (English summary) **2004m:14039**
— Linear and quadratic sections of Grassmannians over a finite field. (English summary) **2004a:14026**
Cossidente, Antonio *see* **Ballico, Edoardo et al.**, **2004c:14041** *and* **2004m:14039**
Denef, Jan (*with* Loeser, François) Motivic integration and the Grothendieck group of pseudo-finite fields. (English summary) **2004f:14040**
Galbraith, Steven D. Weil descent of Jacobians. (English summary) **2004d:14020**
Hess, Florian A note on the Tate pairing of curves over finite fields. (English summary) **2004m:14040**
Kawakita, Motoko Qiu Kummer curves and their fibre products with many rational points. (English summary) **2004e:14040**
Loeser, François *see* **Denef, Jan**, **2004f:14040**
Lomont, Chris Yet more projective curves over $\mathbb{F}_2$. (English summary) **2004c:14042**
Long, Shoulun *see* **Xing, Chaoping**
López, Bartolomé *see* **Luengo, Ignacio**, (**2004j:00030**)
Luengo, Ignacio (*with* López, Bartolomé) Algebraic curves over $\mathbb{F}_3$ with many rational points. (English summary) (*see* **2004j:00030**)
Siciliano, Alessandro *see* **Ballico, Edoardo et al.**, **2004c:14041**
Xing, Chaoping (*with* Long, Shoulun) Algebraic curves over finite fields with many rational points. (English summary)

Items with secondary classifications in 14G15

Abdón, Miriam (*with* Garcia, Arnaldo) On a characterization of certain maximal curves. (English summary) **2004m:11091**
Aubry, Yves (*with* Perret, Marc) Divisibility of zeta functions of curves in a covering. (English summary) **2004m:11092**
Ballico, Edoardo An effective Bertini theorem over finite fields. (English summary) **2004h:14054**
Banks, William D. (*with* Shparlinski, Igor E.) Average normalisations of elliptic curves. (English summary) **2004c:11105**
Baulina, Yu. N. On exact formulas for the number of solutions of the equation $(x_1 + \cdots + x_n)^2 = ax_1 \cdots x_n$ in a finite field. (Russian. Russian summary) **2004f:11028**
Candelas, Philip (*with* De La Ossa, Xenia; Rodriguez-Villegas, Fernando) Calabi-Yau manifolds over finite fields. II. (English summary) **2004m:11095**
Chee, Seongtaek *see* **Cheon, Jung Hee**, **2004j:94023**
Cheon, Jung Hee (*with* Chee, Seongtaek) Nonlinearity of Boolean functions and hyperelliptic curves. (English summary) **2004j:94023**
Cossidente, Antonio (*with* Siciliano, Alessandro) Plane algebraic curves with Singer automorphisms. (English summary) **2004c:11106**
De La Ossa, Xenia *see* **Candelas, Philip et al.**, **2004m:11095**
Diem, Claus The GHS attack in odd characteristic. (English summary) **2004a:14030**
Esnault, Hélène Eigenvalues of Frobenius acting on the l-adic cohomology of complete intersections of low degree. (English and French summaries) **2004i:14018**
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Galbraith, Steven D. Weil descent of Jacobians. (English summary) **2004m:14046**
Garcia, Arnaldo (*with* Stichtenoth, Henning; Rück, Hans-Georg) On tame towers over finite fields. (English summary) **2004e:11133**
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Gekeler, Ernst-Ulrich Asymptotically optimal towers of curves over finite fields. (English summary) **2004m:11094**
Ghorpade, Sudhir R. (*with* Lachaud, Gilles) Number of solutions of equations over finite fields and a conjecture of Lang and Weil. (English summary) **2004f:11060**
— (*with* Lachaud, Gilles) Étale cohomology, Lefschetz theorems and number of points of singular varieties over finite fields. (English summary) **2004d:11049**
van der Heiden, Gert-Jan Local-global problem for Drinfeld modules. (English summary) **2004k:11092**
Homma, Masaaki[2] (*with* Kim, Seon Jeong; Yoo, Mi Ja) Correction to: "Projective systems supported on the complement of two linear subspaces" [Bull. Korean Math. Soc. **37** (2000), no. 3, 493–505]. (English summary) **2004m:14118**
Jeong, Sangtae *see* **Park, Young Ho et al.**, **2004d:94026**
Kim, Seon Jeong *see* **Homma, Masaaki[2] et al.**, **2004m:14118**
King, Brian An improved implementation of elliptic curves over $\mathrm{GF}(2^n)$ when using projective point arithmetic. (English summary) **2004m:68038**
Lachaud, Gilles *see* **Ghorpade, Sudhir R.**, **2004d:11049** *and* **2004f:11060**
(Lauter, Kristin E.) *see* **Savitt, David**, **2004i:11059**
Lim, Jongin *see* **Park, Young Ho et al.**, **2004d:94026**
Park, Young Ho (*with* Jeong, Sangtae; Lim, Jongin) Speeding up point multiplication on hyperelliptic curves with efficiently-computable endomorphisms. (English summary) **2004d:94026**
Perret, Marc *see* **Aubry, Yves**, **2004m:11092**
Rodriguez-Villegas, Fernando *see* **Candelas, Philip et al.**, **2004m:11095**
Rück, Hans-Georg *see* **Garcia, Arnaldo et al.**, **2004e:11133**
Savitt, David The maximum number of points on a curve of genus 4 over $\mathbb{F}_8$ is 25. (English summary) **2004i:11059**
Scholten, Jasper (*with* Zhu, Hui June) Slope estimates of Artin-Schreier curves. (English summary) **2004f:11141**
Shparlinski, Igor E. *see* **Banks, William D.**, **2004c:11105**
Siciliano, Alessandro *see* **Cossidente, Antonio**, **2004c:11106**
Stichtenoth, Henning *see* **Garcia, Arnaldo et al.**, **2004e:11133**
Tsfasman, M. A. (*with* Vlăduţ, S. G.) Infinite global fields and the generalized Brauer-Siegel theorem. (English summary) **2004f:11132**
Vlăduţ, S. G. *see* **Tsfasman, M. A.**, **2004f:11132**
Xing, Chaoping Applications of algebraic curves to constructions of sequences. (English summary) **2004e:11068**
Yoo, Mi Ja *see* **Homma, Masaaki[2] et al.**, **2004m:14118**
Zhu, Hui June *see* **Scholten, Jasper**, **2004f:11141**

14G20 Local ground fields

van Hamel, Joost *see* **Scheiderer, Claus**, **2004m:14041**
Lehr, Claus Effective methods for vanishing cycles of p-cyclic covers of the p-adic line. (English summary) **2004j:14022**
Matignon, Michel Vers un algorithme pour la réduction stable des revêtements p-cycliques de la droite projective sur un corps p-adique. (English summary) [Toward an algorithm

for the stable reduction of p-cyclic covers of the projective line over a p-adic field] **2004e:14041**

Moret-Bailly, Laurent Sur la R-équivalence de torseurs sous un groupe fini. (English and French summaries) [R-equivalence of torsors under a finite group] **2004b:14034**

Oesterlé, Joseph A report on Pierre Colmez's theory of integration of 1-forms on p-adic varieties. **2004k:14033**

van der Put, Marius (*with* Voskuil, Harm H.) Mumford coverings of the projective line. (English summary) **2004c:14043**

Saito, Takeshi[1] Weight spectral sequences and independence of l. (English summary) **2004i:14022**

Scheiderer, Claus (*with* van Hamel, Joost) Cohomology of tori over p-adic curves. (English summary) **2004m:14041**

Van Geel, Jan (*with* Yanchevskiĭ, V. I.) The index of certain hyperelliptic curves over p-adic fields. **2004k:14034**

Voskuil, Harm H. *see* **van der Put, Marius**, **2004c:14043**

Yanchevskiĭ, V. I. *see* **Van Geel, Jan**, **2004k:14034**

Yoshida, Teruyoshi Finiteness theorems in the class field theory of varieties over local fields. (English summary) **2004a:14027**

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André, Yves[1] On a geometric description of $\mathrm{Gal}(\overline{\mathbf{Q}}_p/\mathbf{Q}_p)$ and a p-adic avatar of $\widehat{GT}$. (English summary) **2004m:11195**

Bannai, Kenichi Syntomic cohomology as a p-adic absolute Hodge cohomology. (English summary) **2004e:14037**

Berger, Laurent Représentations p-adiques et équations différentielles. (English summary) [p-adic representations and differential equations] **2004a:14022**

Brown, Alexander F. p-adic theta functions and Tate curves. (English summary) (*see* **2004m:11085**)

Consani, Caterina (*with* Marcolli, Matilde) Spectral triples from Mumford curves. **2004i:11061**

Ducros, Antoine Parties semi-algébriques d'une variété algébrique p-adique. (English summary) [Semi-algebraic sets of a p-adic algebraic variety] **2004m:14122**

Kida, Masanari Variation of the reduction type of elliptic curves under small base change with wild ramification. (English summary) **2004j:11055**

Lipnitskiĭ, A. A. 2-torsion of Brauer groups of elliptic curves with multiplicative reduction over the field of real formal power series. (Russian. English and Russian summaries) **2004f:14033**

Madore, David A. Équivalence rationnelles sur les hypersurfaces cubiques sur les corps p-adiques. (English summary) [Rational equivalence on cubic hypersurfaces over p-adic fields] **2004a:14010**

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Mochizuki, Shinichi Topics surrounding the anabelian geometry of hyperbolic curves. **2004m:14052**

Parshin, A. N. Vector bundles and arithmetic groups. II. (Russian. Russian summary) **2004m:14090**

Szydlo, Michael Elliptic fibers over non-perfect residue fields. (English summary) **2004k:11091**

Trihan, Fabien Cohomologie syntomique des F-T-cristaux. (English summary) [Syntomic cohomology of F-T-crystals] **2004f:14034**

Wewers, Stefan Field of moduli and field of definition of Galois covers. (English summary) **2004a:14016**

Yamazaki, Takao On Tate duality for Jacobian varieties. (English summary) **2004e:11063**

14G22 Rigid analytic geometry

Aubert, Anne-Marie (*with* Cunningham, Clifton L. R.) An introduction to sheaves on adic spaces for p-adic group representation theory. **2004a:14028**

Cornelissen, Gunther (*with* Kato, Fumiharu) Equivariant deformation of Mumford curves and of ordinary curves in positive characteristic. (English summary) **2004c:14044**

Cunningham, Clifton L. R. *see* **Aubert, Anne-Marie**, **2004a:14028**

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Pappas, Georgios *see* **Chinburg, Ted et al.**, **2004f:11128**

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14G27 Other nonalgebraically closed ground fields

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Bogomolov, Fedor (*with* Tschinkel, Yuri) Commuting elements of Galois groups of function fields. (English summary) **2004d:14021**

Fried, Michael D. (*with* Mézard, Ariane) Configuration spaces for wildly ramified covers. (English summary) **2004b:14035**

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— (*with* Tsunogai, Hiroshi) Harmonic and equianharmonic equations in the Grothendieck-Teichmüller group. (English summary) **2004m:14043**

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14G35 Modular and Shimura varieties [see also 11F41, 11F46, 11G18]

Genestier, A. *see* **Ngô Bảo Châu, 2004b:14036**

Görtz, Ulrich On the flatness of local models for the symplectic group. (English summary) **2004d:14023**

Koike, Kenji On the Picard modular surface for $\mathbb{Q}(\sqrt{-2})$ and related theta constants. (English summary) **2004d:14024**

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14G40 Arithmetic varieties and schemes; Arakelov theory; heights [see also 11G50]

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14G50 Applications to coding theory and cryptography [see also 94A60, 94B27, 94B40]

Balasubramanian, Ramachandran Elliptic curves and cryptography. (English summary) (*see* **2004m:11085**)
Diem, Claus The GHS attack in odd characteristic. (English summary) **2004a:14030**
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— (*with* Franklin, Matthew) Identity-based encryption from the Weil pairing. (English summary) **2004m:94035**
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— (*with* Hess, Florian; Smart, Nigel P.) Extending the GHS Weil descent attack. (English summary) **2004f:94060**
Geil, Olav On codes from norm-trace curves. (English summary) **2004g:94092**
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Hess, Florian *see* **Galbraith, Steven D. et al., 2004f:94060**
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Lomont, Chris Yet more projective curves over $\mathbb{F}_2$. (English summary) **2004c:14042**
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14Hxx Curves

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14H05 Algebraic functions; function fields [see also 11R58]

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Miura, Kei *see* **Duyaguit, Ma. Cristina, 2004d:14026**
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14H10 Families, moduli (algebraic)

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14H20 Singularities, local rings [see also 13Hxx, 14B05]

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— Nodal curves and curves with few singularities in $\mathbf{P}^n$. (English summary) **2004k:14045**
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Campillo-López, Antonio (*with* Delgado de la Mata, Félix; Guseĭn-Zade, S. M.) The Alexander polynomial of a plane curve singularity via the ring of functions on it. (English summary) **2004e:14047**
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Castellanos, Julio Complete ideals and singularities of curves. (Spanish) **2004c:14052**
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14H25 Arithmetic ground fields [see also 11Dxx, 11G05, 14Gxx]

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14H30 Coverings, fundamental group [see also 14E20, 14F35]

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14H37 Automorphisms

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14H40 Jacobians, Prym varieties [see also 32G20]

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14H42 Theta functions; Schottky problem [see also 14K25, 32G20]

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14H45 Special curves and curves of low genus

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Avanzi, Roberto M. (*with* Zannier, Umberto M.) The equation $f(X) = f(Y)$ in rational functions $X = X(t)$, $Y = Y(t)$. (English summary) **2004m:14057**
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14H50 Plane and space curves

Ballico, Edoardo (*with* Orecchia, Ferruccio) Connected genus zero configurations of lines in projective spaces and postulation. (English summary) **2004b:14047**
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14H51 Special divisors (gonality, Brill-Noether theory)

Aprodu, Marian (*with* Voisin, Claire) Green-Lazarsfeld's conjecture for generic curves of large gonality. (English and French summaries) **2004a:14033**
— On the vanishing of higher syzygies of curves. II. **2004d:14040**
Ballico, Edoardo Trigonal Gorenstein curves and Weierstrass points. (English summary) **2004d:14041**
— (*with* Keem, Changho; Kim, SeonJa) Normal generation of line bundles on a general k-gonal algebraic curve. (English and Italian summaries) **2004h:14036**
— Unreduced trigonal curves: ribbons, ropes and Brill-Noether theory. (English summary) **2004e:14052**
— Theta-characteristics on trigonal curves. (English summary) **2004i:14034**
Brambila Paz, Leticia (*with* Yee, Carlos) On the Brill-Noether problem. (Spanish. Spanish summary) **2004b:14049**
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Polishchuk, Alexander A_∞-structures, Brill-Noether loci and the Fourier-Mukai transform. (English summary) **2004k:14052**
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Casnati, Gianfranco (*with* Del Centina, Andrea) The rationality of the Weierstrass space of type $(4, g)$. **2004j:14025**
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Farkas, Gavril Regular components of moduli spaces of stable maps. (English summary) **2004b:14039**
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Knutsen, Andreas Leopold Gonality and Clifford index of curves on $K3$ surfaces. (English summary) **2004d:14052**
— Higher order birational embeddings of del Pezzo surfaces. (English summary) **2004f:14049**
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Takeda, Yoshifumi Pre-Tango structures in characteristic two. (English summary) **2004b:14058**

14H52 Elliptic curves [see also 11G05, 11G07, 14Kxx]

Ruiz Hernández, Luis Enrique Unified representation of piecewise elliptic curves. (Spanish. Spanish summary)

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Dabija, Marius *see* **Bonifant, Araceli M., 2004a:32029**
Deninger, Christopher On the nature of the "explicit formulas" in analytic number theory—a simple example. (English summary) **2004f:11093**
Friedman, Robert David (*with* Morgan, John W.) Automorphism sheaves, spectral covers, and the Kostant and Steinberg sections. **2004f:20084**
Frium, Hege Reithe The group law on elliptic curves on Hesse form. (English summary) **2004f:11055**
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Lipnitskiĭ, A. A. 2-torsion of Brauer groups of elliptic curves with multiplicative reduction over the field of real formal power series. (Russian. English and Russian summaries) **2004f:14033**
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Mochizuki, Shinichi A survey of the Hodge-Arakelov theory of elliptic curves. II. (English summary) **2004k:14041**
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14H55 Riemann surfaces; Weierstrass points; gap sequences [see also 30Fxx]

Ballico, Edoardo Weierstrass points of line bundles and linear systems on unreduced curves. (English summary) **2004j:14034**
Chueshev, V. V. Multiplicative Weiersrass points and the Jacobi variety of a compact Riemann surface. (Russian. Russian summary) **2004m:14063**
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Kikuchi, Satoru Bound for the Weierstrass weights of points on a smooth plane algebraic curve. (English summary) **2004m:14064**
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14H60 Vector bundles on curves and their moduli [see also 14D20, 14F05]

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— Multiplication of sections of stable vector bundles: the injectivity range. (English summary) **2004c:14061**
— Geometric and cohomological properties of rank 2 vector bundles on curves. (English summary) **2004d:14044**
— Curves in Grassmannians and Plücker embeddings: the injectivity range. (English summary) **2004c:14062**
— (*with* Russo, Barbara) Stable vector bundles with decomposable subbundles. (English summary) **2004d:14045**
— (*with* Gasparim, Elizabeth) Vector bundles on a neighborhood of an exceptional curve and elementary transformations. (English summary) **2004e:14055**
— On the Brill-Noether theory of stable bundles on curves. (English summary) **2004k:14054**
— Trees in projective spaces: normal bundles and extremal hyperplane sections. (English summary) **2004k:14055**
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— Some stable vector bundles with reducible theta divisor. (English summary) **2004b:14054**
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Schmitt, Alexander H. W. Topological rigidity of algebraic $\mathbb{P}_3$-bundles over curves. (English summary) **2004c:14064**
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Racanière, Sébastien Restriction map in a regular reduction of $SU(n)^{2g}$. (English summary) **2004g:53094**
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14H70 Relationships with integrable systems

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Athorne, Chris (*with* Eilbeck, J. C.; Ènol′skiĭ, V. Z.) Identities for the classical genus two $\wp$ function. (English summary) **2004h:14037**
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Audin, Michèle ★ Les systèmes hamiltoniens et leur intégrabilité. (French. English, French and Portuguese summaries) [Hamiltonian systems and their integrability] **2004g:37074**
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Matsutani, Shigeki Toda equations and σ-functions of genera one and two. (English summary) **2004h:37118**
van Moerbeke, Pierre Random matrices and permutations, matrix integrals and integrable systems. **2004a:82037**
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14H81 Relationships with physics

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Demasure, Yves (*with* Janik, Romuald A.) Explicit factorization of Seiberg-Witten curves with matter from random matrix models. (English summary) **2004h:81230**
Ennes, Isabel P. (*with* Lozano, Carlos; Naculich, Stephen G.; Rhedin, Henric; Schnitzer, Howard J.) M-theory tested by $\mathcal{N} = 2$ Seiberg-Witten theory. (English summary) **2004c:81264**
— (*with* Lozano, Carlos; Naculich, Stephen G.; Schnitzer, Howard J.) Seiberg-Witten curves for elliptic models. (English summary) **2004c:81265**
Hitchin, Nigel A lecture on the octahedron. (English summary) **2004h:32031**
Janik, Romuald A. *see* **Demasure, Yves, 2004h:81230**
Ksir, Amy E. (*with* Naculich, Stephen G.) Elliptic fibrations and elliptic models. (English summary) **2004i:81200**
Lozano, Carlos *see* **Ennes, Isabel P. et al., 2004c:81264** *and* **2004c:81265**
Mohri, Kenji Exceptional string: instanton expansions and Seiberg-Witten curve. (English summary) **2004c:81224**
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Pakulyak, S. Z. (*with* Sergeev, Sergei M.) Spectral curves and the parametrization of discrete integrable three-dimensional models. (Russian. Russian summary) **2004k:82027**
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14H99 None of the above, but in this section

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— Immersions of reducible curves in projective spaces. (English summary) **2004i:14040**
Recillas Pishmish, Sevin Canonical mappings of curves. (Spanish) (*see* **2004c:14001**)
Rousseau, Erwan Hyperbolicité du complémentaire d'une courbe dans $\mathbb{P}^2$: le cas de deux composantes. (English and French summaries) [Hyperbolicity of the complements of plane algebraic curves: the two-component case] **2004f:14046**
Schumann, Heinz A dynamic approach to "simple" algebraic curves. I. (English summary)
Wang, Ren Hong (*with* Zhu, Chun Gang) Nöther-type theorem of piecewise algebraic curves. (English summary)
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Ballico, Edoardo On the Gaussian maps of curves in positive characteristic. (English summary) **2004i:14061**
— On the minimal free resolution of multiple curves. (English summary) **2004m:14102**
— (*with* Chiarli, Nadia; Greco, Silvio) Projective curves: multisecant schemes and lifting problems. (English summary) **2004e:14074**
— Projective curves and unramified projections. (English summary) **2004k:14093**
Bombieri, Enrico (*with* Masser, D. W.; Zannier, Umberto M.) Finiteness results for multiplicatively dependent points on complex curves. **2004k:14079**
Buckley, Anita (*with* Zompatori, Marina) On the transversality of restricted linear systems. (English summary) **2004i:14008**
Chiarli, Nadia *see* **Ballico, Edoardo et al., 2004e:14074**
Coppens, Marc The singular locus of the secant varieties of a smooth projective curve. (English summary) **2004m:14116**
Di Gennaro, Roberta On the Hartshorne-Rao module of curves on rational normal scrolls. (English summary) **2004f:14067**
Ferraro, Rita Linkage on arithmetically Cohen-Macaulay schemes with application to the classification of curves of maximal genus. (English summary) **2004m:14104**
Gorinov, Alexey G. Conical resolutions of discriminant varieties and real cohomology of the space of nonsingular plane complex projective quintics. (Russian) **2004e:14033**
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Hartshorne, Robin Geometry of arithmetically Gorenstein curves in $\mathbb{P}^4$. (English summary) **2004m:14105**
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Krichever, Igor Moiseevich (*with* Vaninsky, K. L.) The periodic and open Toda lattice. (English summary) **2004j:37109**
Masser, D. W. *see* **Bombieri, Enrico et al., 2004k:14079**
Nagel, Uwe Non-degenerate curves with maximal Hartshorne-Rao module. (English summary) **2004g:14054**
Pablos Romo, Fernando A note on Steinberg symbols on algebraic curves. (English summary) **2004c:19002**
Previato, Emma Some integrable billiards. (English summary) **2004c:37134**
Schreyer, Frank-Olaf (*with* Tonoli, Fabio) Needles in a haystack: special varieties via small fields. (*see* **2004b:14002**)
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14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx.}

Barth, Wolf P. (*with* Hulek, Klaus; Peters, Chris A. M.; Van de Ven, Antonius) ★ Compact complex surfaces. **2004m:14070**
Hulek, Klaus *see* **Barth, Wolf P. et al., 2004m:14070**
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Van de Ven, Antonius *see* **Barth, Wolf P. et al., 2004m:14070**

14J10 Families, moduli, classification: algebraic theory

Allcock, Daniel (*with* Carlson, James A.; Toledo, Domingo) Real cubic surfaces and real hyperbolic geometry. (English and French summaries) **2004j:14040**
Bogomolov, Fedor (*with* Petrov, Tihomir; Tschinkel, Yuri) Rationality of moduli of elliptic fibrations with fixed monodromy. (English summary) **2004a:14037**
Carlson, James A. *see* **Allcock, Daniel et al., 2004j:14040**
Kojima, Hideo A note on Sakai's theorem concerning polarized normal surfaces. (English summary) **2004e:14057**
Kovács, Sándor J. Families of varieties of general type: the Shafarevich conjecture and related problems. **2004j:14041**
— Viehweg's conjecture for families over $\mathbb{P}^n$. (English summary) **2004h:14038**
— Vanishing theorems, boundedness and hyperbolicity over higher-dimensional bases. (English summary) **2004f:14047**
Lee, Yongnam Deformation theory of smoothable semi log canonical surfaces. (English summary) **2004m:14071**
Manfredini, Sandro (*with* Pignatelli, Roberto) Chisini's conjecture for curves with singularities of type $x^n = y^m$. **2004a:14038**
Namikawa, Yoshinori Stratified local moduli of Calabi-Yau threefolds. (English summary) **2004d:14047**
Nguyen Chanh Tu On boundaries of moduli spaces of non-singular cubic surfaces with star points. (English summary) **2004m:14072**
Önsiper, Hurşit (*with* Tekinel, Can) On the moduli of surfaces admitting genus 2 fibrations. (English summary) **2004c:14066**
Petrov, Tihomir *see* **Bogomolov, Fedor et al., 2004a:14037**
Pignatelli, Roberto *see* **Manfredini, Sandro, 2004a:14038**
Pirola, Gian Pietro (*with* Zucconi, Francesco) Variations of the Albanese morphisms. (English summary) **2004i:14041**
Supino, Paola On moduli of regular surfaces with $K^2 = 8$ and $p_g = 4$. (English summary) **2004h:14039**
Tekinel, Can *see* **Önsiper, Hurşit, 2004c:14066**
Toledo, Domingo *see* **Allcock, Daniel et al., 2004j:14040**
Tschinkel, Yuri *see* **Bogomolov, Fedor et al., 2004a:14037**
Zucconi, Francesco *see* **Pirola, Gian Pietro, 2004i:14041**

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Cai, Jin-Xing Numerical criteria for certain fiber spaces to be birationally trivial. (English summary) **2004c:14012**
Campana, Frédéric Special varieties and classification theory: an overview. (English summary) **2004d:14048**
Catanese, Fabrizio (*with* Schreyer, Frank-Olaf) Canonical projections of irregular algebraic surfaces. **2004b:14068**
Endrass, Stephan (*with* Persson, Ulf; Stevens, Jan) Surfaces with triple points. (English summary) **2004a:14039**
Kock, Joachim Characteristic numbers of rational curves with cusp or prescribed triple contact. (English summary) **2004e:14082**
Minagawa, Tatsuhiro Global smoothing of singular weak Fano 3-folds. (English summary) **2004b:14074**
Mukai, Shigeru New developments in the theory of Fano threefolds: vector bundle method and moduli problems [translation of Sūgaku **47** (1995), no. 2, 125–144; MR 96m:14059]. (*see* **2004e:00017**)
Murakami, Masaaki Minimal algebraic surfaces of general type with $c_1^2 = 3$, $p_g = 1$ and $q = 0$, which have non-trivial 3-torsion divisors. (English summary) **2004m:14082**
Nagai, Yasunari A characterization of certain irreducible symplectic 4-folds. (English summary) **2004c:14076**
Pardini, Rita The classification of double planes of general type with $K^2 = 8$ and $p_g = 0$. (English summary) **2004a:14041**
Persson, Ulf *see* **Endrass, Stephan et al., 2004a:14039**
Schreyer, Frank-Olaf *see* **Catanese, Fabrizio, 2004b:14068**
Stevens, Jan *see* **Endrass, Stephan et al., 2004a:14039**
Viehweg, Eckart (*with* Zuo, Kang[1]) On the Brody hyperbolicity of moduli spaces for canonically polarized manifolds. (English summary) **2004h:14042**
Zuo, Kang[1] *see* **Viehweg, Eckart, 2004h:14042**

14J15 Moduli, classification: analytic theory; relations with modular forms [see also 32G13]

Allcock, Daniel (*with* Freitag, Eberhard) Cubic surfaces and Borcherds products. (English summary) **2004c:14067**
Campana, Frédéric Special varieties and classification theory: an overview. (English summary) **2004d:14048**
Freitag, Eberhard A graded algebra related to cubic surfaces. **2004h:14040**
— *see also* **Allcock, Daniel, 2004c:14067**
Heckman, Gert (*with* Looijenga, Eduard) The moduli space of rational elliptic surfaces. (English summary) **2004c:14068**
Jorgenson, Jay (*with* Todorov, Andreĭ Nikolov) Ample divisors, automorphic forms and Shafarevich's conjecture. (English summary) **2004g:14036**
Looijenga, Eduard Compactifications defined by arrangements. I. The ball quotient case. (English summary) **2004i:14042a**
— Compactifications defined by arrangements. II. Locally symmetric varieties of type IV. (English summary) **2004i:14042b**
— *see also* **Heckman, Gert, 2004c:14068**
Matsumoto, Keiji[1] (*with* Terasoma, Tomohide) Theta constants associated to cubic threefolds. (English summary) **2004h:14041**
Terasoma, Tomohide *see* **Matsumoto, Keiji[1], 2004h:14041**
Todorov, Andreĭ Nikolov *see* **Jorgenson, Jay, 2004g:14036**
Viehweg, Eckart (*with* Zuo, Kang[1]) On the Brody hyperbolicity of moduli spaces for canonically polarized manifolds. (English summary) **2004h:14042**
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Benjamini, Itai (*with* Merenkov, Sergei; Schramm, Oded) A negative answer to Nevanlinna's type question and a parabolic surface with a lot of negative curvature. (English summary) **2004k:30096**
Catanese, Fabrizio (*with* Frediani, Paola) Real hyperelliptic surfaces and the orbifold fundamental group. (English summary) **2004c:14114**
Cheung, Wing-Sum (*with* Wong, Bun; Yau, Stephen S.-T.) Some remarks on the local moduli of tangent bundles over complex surfaces. (English summary) **2004f:32013**
Frediani, Paola *see* **Catanese, Fabrizio, 2004c:14114**
Freitag, Eberhard Some modular forms related to cubic surfaces. (English summary) **2004h:11044**

Holzapfel, Rolf-Peter Enumerative geometry for complex geodesics on quasi-hyperbolic 4-spaces with cusps. (English summary) **2004d:11038**
Merenkov, Sergei *see* **Benjamini, Itai et al., 2004k:30096**
Schramm, Oded *see* **Benjamini, Itai et al., 2004k:30096**
Wong, Bun *see* **Cheung, Wing-Sum et al., 2004f:32013**
Yau, Stephen S.-T. *see* **Cheung, Wing-Sum et al., 2004f:32013**

14J17 Singularities [see also 14B05, 14E15]

Bayer, Thomas Algorithms for the computation of moduli spaces for semiquasihomogeneous singularities. (English summary) **2004m:14073**
Bondil, Romain Discriminant of a generic projection of a minimal normal surface singularity. (English and French summaries) **2004e:14058**
Campillo-López, Antonio (*with* Delgado de la Mata, Félix; Guseĭn-Zade, S. M.) Poincaré series of a rational surface singularity. **2004j:14042**
Delgado de la Mata, Félix *see* **Campillo-López, Antonio et al., 2004j:14042**
Ebeling, Wolfgang The Poincaré series of some special quasihomogeneous surface singularities. (English summary) **2004e:14059**
Ein, Lawrence *see* **de Fernex, Tommaso et al., 2004e:14060**
Endrass, Stephan (*with* Persson, Ulf; Stevens, Jan) Surfaces with triple points. (English summary) **2004a:14039**
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Flenner, Hubert (*with* Zaidenberg, Mikhail) Rational curves and rational singularities. (English summary) **2004e:14061**
Guseĭn-Zade, S. M. *see* **Campillo-López, Antonio et al., 2004j:14042**
Langer, Adrian Logarithmic orbifold Euler numbers of surfaces with applications. **2004c:14069**
Miyanishi, Masayoshi (*with* Zhang, De-Qi) Equivariant classification of Gorenstein open log del Pezzo surfaces with finite group actions. (English summary) **2004j:14043**
Mustaţă, Mircea *see* **de Fernex, Tommaso et al., 2004e:14060**
Persson, Ulf *see* **Endrass, Stephan et al., 2004a:14039**
Prokhorov, Yu. G. Elliptic Gorenstein singularities, log canonical thresholds, and log Enriques surfaces. **2004g:14037**
Rams, Sławomir On quartics with three-divisible sets of cusps. (English summary) **2004e:14062**
Stevens, Jan *see* **Endrass, Stephan et al., 2004a:14039**
Tornero, José M. Some geometric aspects of Puiseux surfaces. (English summary) **2004m:14074**
Veys, Willem Stringy zeta functions for $\mathbb{Q}$-Gorenstein varieties. (English summary) **2004m:14075**
Wada, Koukichi The behavior of the second pluri-genus of normal surface singularities of type ${}_*A_{n,*}D_{n,*}E_{n,*}\widetilde{A}_{n,*}\widetilde{D}_n$ and ${}_*\widetilde{E}_n$. (English summary) **2004k:14059**
Zaidenberg, Mikhail *see* **Flenner, Hubert, 2004e:14061**
Zhang, De-Qi *see* **Miyanishi, Masayoshi, 2004j:14043**

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Aluffi, Paolo Inclusion-exclusion and Segre classes. (English summary) **2004i:14007**
Anno, R. E. Four-dimensional terminal Gorenstein quotient singularities. (Russian. Russian summary) **2004h:14005**
Ballico, Edoardo Hypersurfaces in a projective space singular along general lines with general isolated singular points. (English summary) **2004k:14073**
Bravo, Ana (*with* Villamayor U., Orlando E.) A strengthening of resolution of singularities in characteristic zero. **2004c:14020**
Caibăr, Mirel On the number of crepant valuations of canonical singularities. (English summary) **2004e:14009**
Chiang, Li (*with* Roan, Shi-Shyr) Crepant resolutions of $\mathbb{C}^n/A_1(n)$ and flops of n-folds for $n = 4, 5$. (English summary) **2004j:14058**
Cortez, Aurélie Singularités génériques et quasi-résolutions des variétés de Schubert pour le groupe linéaire. (English summary) [Generic singularities and quasi-resolutions of Schubert varieties for the linear group] **2004i:14056**
Encinas, Santiago (*with* Villamayor U., Orlando E.) Principalization and desingularization. (Spanish) **2004b:14024**
Gordon, Iain (*with* Rumynin, D. A.) Subregular representations of $\mathfrak{sl}_n$ and simple singularities of type A_{n-1}. (English summary) **2004i:17013**
Grinenko, M. M. Birational properties of pencils of del Pezzo surfaces of degrees 1 and 2. II. (Russian. Russian summary) **2004i:14012**
Gurjar, R. V. On a generalization of Mumford's result and related question. (English summary) **2004d:14010**
Hironaka, Eriko Lehmer's problem, McKay's correspondence, and 2, 3, 7. (English summary) **2004j:57016**
Horváth, Alexandru Analytic invariants and the resolution graphs of the singularities of the type ADE. (English summary) **2004c:32056**
Kudryavtsev, S. A. Classification of exceptional log del Pezzo surfaces with $\delta = 1$. (Russian. Russian summary) **2004f:14048**
Kulikov, Viktor The generalized Chisini conjecture. (Russian. Russian summary) **2004m:14018**
Lee, Yongnam Deformation theory of smoothable semi log canonical surfaces. (English summary) **2004m:14071**
Lejeune-Jalabert, Monique (*with* Reguera, Ana J.) The Denef-Loeser series for toric surface singularities. (English summary) **2004m:14001**
Neumann, Walter D. (*with* Wahl, Jonathan) Universal abelian covers of quotient-cusps. (English summary) **2004d:32039**
Prokhorov, Yu. G. $\mathbb{E}1$-blowing ups of terminal singularities. **2004j:14016**
Reguera, Ana J. *see* **Lejeune-Jalabert, Monique, 2004m:14001**
Roan, Shi-Shyr *see* **Chiang, Li, 2004j:14058**
Rumynin, D. A. *see* **Gordon, Iain, 2004i:17013**
Shin, Dong-Kwan On a plurigenus of a canonical threefold. (English summary) **2004k:14064**
Villamayor U., Orlando E. *see* **Encinas, Santiago, 2004b:14024** *and* **Bravo, Ana, 2004c:14020**
Wahl, Jonathan *see* **Neumann, Walter D., 2004d:32039**
Westenberger, Eric Existence of hypersurfaces with prescribed simple singularities. (English summary) **2004e:14069**
Yamaki, Kazuhiko A direct proof of Moriwaki's inequality for semistably fibered surfaces and its generalization. **2004b:14015**

14J25 Special surfaces {For Hilbert modular surfaces, see 14G35.}

Casagrande, Cinzia Tori Fano varieties and birational morphisms. **2004b:14060**
Friedman, Robert David (*with* Morgan, John W.) Exceptional groups and del Pezzo surfaces. **2004b:14061**
Kudryavtsev, S. A. Classification of exceptional log del Pezzo surfaces with $\delta = 1$. (Russian. Russian summary) **2004f:14048**
Lanteri, Antonio On the osculatory behavior of surface scrolls. (English summary) **2004k:14060**
Morgan, John W. *see* **Friedman, Robert David, 2004b:14061**
Zubė, S. Correspondence and $(2, 1)$-Bézier surfaces. (English and Lithuanian summaries) **2004k:14061**

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Aprodu, Marian On the vanishing of higher syzygies of curves. II. **2004d:14040**
Casnati, Gianfranco Covers of algebraic varieties. V. Examples of covers of degree 8 and 9 as catalecticant loci. (English summary) **2004h:14025**
Fukuma, Yoshiaki On polarized surfaces (X, L) with $h^0(L) \geq 2$, $\kappa(X) \geq 0$, and $g(L) = q(X) + 1$. (English summary) **2004j:14007**
— Polarized surfaces (X, L) with $g(L) = q(X) + m$ and $h^0(L) \geq m + 2$. (English summary) **2004f:14014**
Zucconi, Francesco Generalized hyperelliptic surfaces. (English summary) **2004g:14039**

14J26 Rational and ruled surfaces

Brundu, Michela (*with* Sacchiero, Gianni) On rational surfaces ruled by conics. (English summary) **2004k:14062**
Chen, Falai (*with* Wang, Wen Ping[1]) Revisiting the μ-basis of a rational ruled surface. (English summary) **2004m:14076**
Cid-Muñoz, Rosa (*with* Pedreira, Manuel) Another classification of incidence scrolls. (English summary) **2004d:14049**
Gurjar, R. V. (*with* Pradeep, C. R.; Zhang, De-Qi) On Gorenstein surfaces dominated by $\mathbf{P}^2$. (English summary) **2004b:14062**
Knutsen, Andreas Leopold Higher order birational embeddings of del Pezzo surfaces. (English summary) **2004f:14049**
— Exceptional curves on del Pezzo surfaces. (English summary) **2004f:14050**
Pedreira, Manuel *see* **Cid-Muñoz, Rosa, 2004d:14049**
Pradeep, C. R. *see* **Gurjar, R. V. et al., 2004b:14062**
Sacchiero, Gianni *see* **Brundu, Michela, 2004k:14062**
Saito, Masa-Hiko (*with* Takebe, Taro) Classification of Okamoto-Painlevé pairs. (English summary) **2004j:14044**
Takebe, Taro *see* **Saito, Masa-Hiko, 2004j:14044**
Voica, Cristian A class of rational surfaces in $\mathbf{P}^4$. (English summary) **2004b:14063**
Wang, Wen Ping[1] *see* **Chen, Falai, 2004m:14076**
Zhang, De-Qi On endomorphisms of algebraic surfaces. (English summary) **2004c:14070**
— *see also* **Gurjar, R. V. et al., 2004b:14062**

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Chauvin, Stéphane (*with* De Volder, Cindy) Some very ample and base point free linear systems on generic rational surfaces. (English summary) **2004c:14007**
Ciliberto, Ciro (*with* Miranda, Rick) A deformation theory approach to linear systems with general triple points. **2004f:14043**
Colliot-Thélène, Jean-Louis (*with* Madore, David A.) Surfaces de del Pezzo sans point rationnel sur un corps de dimension cohomologique un. (English and French summaries) [Rational-point-free del Pezzo surfaces over a field of cohomological dimension one] **2004k:14031**
De Volder, Cindy *see* **Chauvin, Stéphane, 2004c:14007**
Dolcetti, Alberto Arithmetically Gorenstein curves on arithmetically Cohen-Macaulay surfaces. (English summary) **2004b:14086**
Hazama, Fumio Rational curves on rational surfaces. (English summary) **2004h:14057**
Henry-Labordère, Pierre (*with* Julia, Bernard; Paulot, Louis) Real Borcherds superalgebras and M-theory. (English summary) **2004k:81281**
Iliev, Atanas The Sp_3-Grassmannian and duality for prime Fano threefolds of genus 9. (English summary) **2004k:14068**
Joglar-Prieto, Nuria (*with* Mangolte, Frédéric) Real algebraic morphisms and del Pezzo surfaces of degree 2. (English summary) **2004m:14121**
Julia, Bernard *see* **Henry-Labordère, Pierre et al., 2004k:81281**
Krasnov, V. A. The Brauer and the Witt group of a real ruled surface. (Russian. Russian summary) **2004e:14032**
Kudryavtsev, S. A. Classification of exceptional log del Pezzo surfaces with $\delta = 1$. (Russian. Russian summary) **2004f:14048**
Madore, David A. *see* **Colliot-Thélène, Jean-Louis, 2004k:14031**
Mangolte, Frédéric *see* **Joglar-Prieto, Nuria, 2004m:14121**
Miranda, Rick *see* **Ciliberto, Ciro, 2004f:14043**
Miyanishi, Masayoshi (*with* Zhang, De-Qi) Equivariant classification of Gorenstein open log del Pezzo surfaces with finite group actions. (English summary) **2004j:14043**
Park, Jihun A note on del Pezzo fibrations of degree 1. (English summary) **2004k:14021**
Paulot, Louis *see* **Henry-Labordère, Pierre et al., 2004k:81281**

Russo, Francesco The antibirational involutions of the plane and the classification of real del Pezzo surfaces. **2004b:14099**
Tutaj-Gasińska, Halszka A note on k-very ampleness of a bundle on a blown up plane. (English summary) **2004j:14009**
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Żołądek, Henryk A new topological proof of the Abhyankar-Moh theorem. (English summary) **2004j:14069**

14J27 Elliptic surfaces

Bogomolov, Fedor (*with* Tschinkel, Yuri) Monodromy of elliptic surfaces. (English summary) **2004j:14045**
Kloosterman, Remke Extremal elliptic surfaces and infinitesimal Torelli. **2004m:14077**
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Heckman, Gert (*with* Looijenga, Eduard) The moduli space of rational elliptic surfaces. (English summary) **2004c:14068**
Lecacheux, Odile Rang de familles de courbes elliptiques. [Rank of families of elliptic curves] **2004b:11078**
Looijenga, Eduard Compactifications defined by arrangements. I. The ball quotient case. (English summary) **2004i:14042a**
— Compactifications defined by arrangements. II. Locally symmetric varieties of type IV. (English summary) **2004i:14042b**
— *see also* **Heckman, Gert, 2004c:14068**
Oguiso, Keiji Local families of $K3$ surfaces and applications. (English summary) **2004c:14072**
Petrov, Tihomir *see* **Bogomolov, Fedor et al., 2004a:14037**
Prokhorov, Yu. G. $\mathbb{E}1$-blowing ups of terminal singularities. **2004j:14016**
Shioda, Tetsuji The elliptic $K3$ surfaces with with a maximal singular fibre. (English and French summaries) **2004j:14046**
Teicher, Mina *see* **Amram, Meirav, 2004m:14012**
Tschinkel, Yuri *see* **Bogomolov, Fedor et al., 2004a:14037**

14J28 $K3$ surfaces and Enriques surfaces

Catanese, Fabrizio (*with* Keum, JongHae; Oguiso, Keiji) Some remarks on the universal cover of an open $K3$ surface. (English summary) **2004c:14071**
Giraldo, Luis (*with* Lopez, Angelo Felice; Muñoz, Roberto) On the projective normality of Enriques surfaces. **2004b:14064**
González-Dorrego, M. R. On the normal bundle of curves on a Kummer surface in $\mathbb{P}^3$. **2004d:14050**
Goto, Yasuhiro $K3$ surfaces with symplectic group actions. (English summary) **2004i:14043**
Hosono, Shinobu (*with* Lian, Bong H.; Oguiso, Keiji; Yau, Shing Tung) Fourier-Mukai partners of a $K3$ surface of Picard number one. (English summary) **2004b:14065**
— (*with* Lian, Bong H.; Oguiso, Keiji; Yau, Shing Tung) Kummer structures on $K3$ surface: an old question of T. Shioda. (English summary) **2004k:14063**
Keum, JongHae *see* **Catanese, Fabrizio et al., 2004c:14071**
Kim, Hoil (*with* Lee, Chang-Yeong) N-point deformation of algebraic $K3$ surfaces. (English summary) **2004d:14051**
Knutsen, Andreas Leopold Gonality and Clifford index of curves on $K3$ surfaces. (English summary) **2004d:14052**
Lee, Chang-Yeong *see* **Kim, Hoil, 2004d:14051**
Lian, Bong H. *see* **Hosono, Shinobu et al., 2004b:14065** *and* **2004k:14063**
Long, Ling On a Shioda-Inose structure of a family of $K3$ surfaces. (English summary) **2004m:14079**
Lopez, Angelo Felice *see* **Giraldo, Luis et al., 2004b:14064**
Madonna, Carlo (*with* Nikulin, Vyacheslav V.) On the classical correspondence between $K3$ surfaces. (Russian. Russian summary) **2004m:14080**
Mendes Lopes, Margarida (*with* Pardini, Rita) Enriques surfaces with eight nodes. (English summary) **2004b:14066**
Mukai, Shigeru Vector bundles on a $K3$ surface. (English summary) **2004b:14067**
Muñoz, Roberto *see* **Giraldo, Luis et al., 2004b:14064**
Nikulin, Vyacheslav V. *see* **Madonna, Carlo, 2004m:14080**
Oguiso, Keiji Local families of $K3$ surfaces and applications. (English summary) **2004c:14072**
— *see also* **Hosono, Shinobu et al., 2004b:14065**; **2004k:14063** *and* **Catanese, Fabrizio et al., 2004c:14071**
Pardini, Rita *see* **Mendes Lopes, Margarida, 2004b:14066**
Schröer, Stefan Logarithmic deformations of normal crossing Enriques surfaces in characteristic two. (English summary) **2004c:14073**
Shioda, Tetsuji The elliptic $K3$ surfaces with with a maximal singular fibre. (English and French summaries) **2004j:14046**
Stevens, Jan Semistable $K3$-surfaces with icosahedral symmetry. (English summary) **2004g:14038**
(Verra, Alessandro) *see* **Giraldo, Luis et al., 2004b:14064**
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— Hilbert series and applications to graded rings. (English summary) **2004c:14078**
Baragar, Arthur Canonical vector heights on algebraic $K3$ surfaces with Picard number two. (English summary) **2004i:11065**
— Orbits of curves on certain $K3$ surfaces. (English summary) **2004d:11050**
Beauville, Arnaud Vector bundles on the cubic threefold. **2004a:14043**
Biswas, Indranil (*with* Mukherjee, Avijit) On the symplectic structures on moduli space of stable sheaves over a $K3$ or abelian surface and on Hilbert scheme of points. (English summary) **2004d:14060**
Bridgeland, Tom (*with* Maciocia, Antony) Fourier-Mukai transforms for $K3$ and elliptic fibrations. (English summary) **2004e:14019**
Brown, Gavin[2] *see* **Altınok, Selma et al., 2004c:14077**
Buchdahl, Nicholas Compact Kähler surfaces with trivial canonical bundle. (English summary) **2004e:32019**
Dolcetti, Alberto Arithmetically Gorenstein curves on arithmetically Cohen-Macaulay surfaces. (English summary) **2004b:14086**
Ellenberg, Jordan S. $K3$ surfaces over number fields with geometric Picard number one. (English summary) **2004j:11062**
Fu, Baohua Abelian fibrations on $S^{[n]}$. (English and French summaries) **2004k:14016**
Giraldo, Luis (*with* Lopez, Angelo Felice; Muñoz, Roberto) On the existence of Enriques-Fano threefolds of index greater than one. (English summary) **2004k:14067**
Guletskiĭ, Vladimir (*with* Pedrini, Claudio) The Chow motive of the Godeaux surface. (English summary) **2004b:14006**
Huybrechts, Daniel The Kähler cone of a compact hyperkähler manifold. (English summary) **2004e:53068**
Jorgenson, Jay (*with* Todorov, Andreĭ Nikolov) Ample divisors, automorphic forms and Shafarevich's conjecture. (English summary) **2004g:14036**
Kondō, Shigeyuki The moduli space of curves of genus 4 and Deligne-Mostow's complex reflection groups. **2004h:14033**
Kovalev, Alexei Twisted connected sums and special Riemannian holonomy. (English summary) **2004m:53088**
Lafon, Guillaume Une surface d'Enriques sans point sur $\mathbb{C}((t))$. (English and French summaries) [An Enriques surface without a rational point over $\mathbb{C}((t))$] **2004k:14035**
Lee, Yongnam Topological Euler numbers in a semi-stable degeneration of surfaces. (English summary) **2004a:14011**
Lehn, Manfred (*with* Sorger, Christoph) The cup product of Hilbert schemes for $K3$ surfaces. (English summary) **2004a:14004**
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14J35 4-folds

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14J40 n-folds ($n > 4$)

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14J45 Fano varieties

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Sato, Hiroshi[3] Jumping deformations of complete toric varieties. (English summary) **2004i:14059**
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14J50 Automorphisms of surfaces and higher-dimensional varieties

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14J60 Vector bundles on surfaces and higher-dimensional varieties, and their moduli [see also 14D20, 14F05, 32Lxx]

Amerik, Ekaterina On endomorphisms of projective bundles. (English summary) **2004c:14080**
Anghel, Cristian (*with* Manolache, Nicolae) Extensions of instantons. (English summary) **2004m:14086**
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Artamkin, I. V. Stable bundles on minimal rational surfaces and the Cremona group. (Russian) **2004d:14059**
Ballico, Edoardo Twisted endomorphisms of rank two stable vector bundles on the plane. (English summary) **2004g:14047**
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Beauville, Arnaud Vector bundles on the cubic threefold. **2004a:14043**
Bhosle, Usha N. (*with* Biswas, Indranil) On the exceptional principal bundles over a surface. (English summary) **2004i:14050**
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— (*with* Peterson, Chris; Rao, A. Prabhakar) Standard vector bundle deformations on $\mathbb{P}^n$. (English summary) **2004e:14067**
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Ballico, Edoardo Holomorphic vector bundles with infinite-dimensional fibers on complex projective varieties. (English summary) **2004m:32038**
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Friedman, Robert David (*with* Morgan, John W.) Exceptional groups and del Pezzo surfaces. **2004b:14061**
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Moraru, Ruxandra Integrable systems associated to a Hopf surface. (English summary) **2004g:32020**
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Ugaglia, Luca Projecting 4-folds from $G(1, 5)$ to $G(1, 4)$. (English summary) **2004a:14053**
Wang, Xiaowei Balance point and stability of vector bundles over a projective manifold. (English summary) **2004f:32034**
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14J70 Hypersurfaces

Ballico, Edoardo Hypersurfaces in a projective space singular along general lines with general isolated singular points. (English summary) **2004k:14073**
Dionisi, Carla (*with* Ilardi, Giovanna) On algebraic hypersurfaces of $\mathbb{P}^r(\mathbb{C})$ multiple components of their Hessian. (English summary) **2004d:14062**
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Shiffman, Bernard (*with* Zaidenberg, Mikhail) Constructing low degree hyperbolic surfaces in $\mathbb{P}^3$. (English summary) **2004b:14078**
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Yoshihara, Hisao Galois points for smooth hypersurfaces. (English summary) **2004c:14084**
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Choe, Insong Finite morphisms between Fano hypersurfaces. (English summary) **2004i:14049**
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El Goul, Jawher Logarithmic jets and hyperbolicity. **2004h:32026**
Huisman, Johannes Real hypersurfaces having many pseudo-hyperplanes. (English summary) **2004e:14086**
Pukhlikov, A. V. Birationally rigid singular Fano hypersurfaces. **2004g:14046**
Shimada, Ichiro The fundamental group of the complement of a resultant hypersurface. (English summary) **2004f:14035**
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Żołądek, Henryk A new topological proof of the Abhyankar-Moh theorem. (English summary) **2004j:14069**

14J80 Topology of surfaces (Donaldson polynomials, Seiberg-Witten invariants)

Nieto Baños, Isidro Classification of complex compact surfaces. (Spanish) (*see* **2004c:14001**)

Items with secondary classifications in 14J80

Yamada, Kimiko A sequence of blowing-ups connecting moduli of sheaves and the Donaldson polynomial under change of polarization. **2004m:14093**

14J81 Relationships with physics

Items with secondary classifications in 14J81

Aspinwall, Paul S. A point's point of view of stringy geometry. (English summary) **2004e:14023**
Blum, Julie D. Triple intersections and geometric transitions. (English summary) **2004b:81145**
Cheshel, Andrei (*with* Ketov, Sergei V.) Type IIA string instanton corrections to the four-fermion correlator in the intersection of del Pezzo surfaces. (English summary) **2004c:81197**
Cremades, Daniel (*with* Ibáñez, Luis E.; Marchesano, Fernando) Yukawa couplings in intersecting D-brane models. (English summary) **2004i:81189**
Curio, Gottfried (*with* Krause, Axel) G-fluxes and non-perturbative stabilisation of heterotic M-theory. (English summary) **2004i:81190**
Fantechi, Barbara (*with* Göttsche, Lothar) Orbifold cohomology for global quotients. (English summary) **2004h:14062**

Feng, Bo[1] (*with* Franco, Sebastián; Hanany, Amihay; He, Yang Hui) Symmetries of toric duality. (English summary) **2004e:81124**
— (*with* Franco, Sebastián; Hanany, Amihay; He, Yang Hui) Unhiggsing the del Pezzo. (English summary) **2004i:81191**
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Govindarajan, Suresh (*with* Jayaraman, T.) D-branes and vector bundles on Calabi-Yau manifolds: a view from the helix. (English summary) **2004a:81191**
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Hori, Kentaro Mirror symmetry and some applications. (English summary) **2004m:81248**
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Mateos Guilarte, Juan (*with* Muñoz Porras, José María) Higher order addition laws on abelian varieties and the fractional quantum Hall effect. (English summary) **2004h:14049**
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Enriquez, Benjamin (*with* Rubtsov, Vladimir) Commuting families in skew fields and quantization of Beauville's fibration. (English summary) **2004e:53139**
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Kosarew, Siegmund Geometric and categorical nonabelian duality in complex geometry. (English summary) **2004k:14026**
Libgober, Anatoly S. *see* **Borisov, Lev A., 2004e:11039**
Pablos Romo, Fernando Algebraic construction of the tame symbol and the Parshin symbol on a surface. (English summary) **2004k:20108**
Roé, Joaquim (*with* Zappalà, Giuseppe; Baggio, Silvano) Linear systems of surfaces with double points: Terracini revisited. (English summary) **2004i:14009**
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14Kxx Abelian varieties and schemes

14K02 Isogeny

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14K05 Algebraic theory

Bertapelle, Alessandra Local flat duality of abelian varieties. (English summary) **2004g:14050**
Hidalgo-Solís, Laura An introduction to abelian varieties. (Spanish. Spanish summary) (*see* **2004c:14001**)
Iyer, Jaya N. Projective normality of abelian varieties. (English summary) **2004e:14070**
Mateos Guilarte, Juan (*with* Muñoz Porras, José María) Higher order addition laws on abelian varieties and the fractional quantum Hall effect. (English summary) **2004h:14049**
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Polishchuk, Alexander ★ Abelian varieties, theta functions and the Fourier transform. **2004m:14094**
Yu, Chia-Fu Lifting abelian varieties with additional structures. **2004m:14095**

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Abdulali, Salman Hodge structures on abelian varieties of type IV. (English summary) **2004k:14013**
Casnati, Gianfranco Covers of algebraic varieties. V. Examples of covers of degree 8 and 9 as catalecticant loci. (English summary) **2004h:14025**
van Geemen, B. (*with* Izadi, E.) Half twists and the cohomology of hypersurfaces. (English summary) **2004e:14017**
Izadi, E. *see* **van Geemen, B., 2004e:14017**
Naie, Daniel Variétés de Kummer généralisées. [Generalized Kummer varieties] **2004b:14081**
Pareschi, Giuseppe (*with* Popa, Mihnea) Regularity on abelian varieties. I. **2004c:14086**
Popa, Mihnea *see* **Pareschi, Giuseppe, 2004c:14086**
Rotger, Víctor Quaternions, polarization and class numbers. (English summary) **2004g:11049**
Vainsencher, Israel Hypersurfaces with up to six double points. (English summary) **2004h:14058**

14K10 Algebraic moduli, classification [see also 11G15]

Achter, Jeffrey D. Hilbert-Siegel moduli spaces in positive characteristic. **2004e:14071**
Birkenhake, Christina (*with* Lange, Herbert) An isomorphism between moduli spaces of abelian varieties. (English summary) **2004d:14063**
Goresky, Mark (*with* Tai, Yung Sheng) The moduli space of real abelian varieties with level structure. (English summary) **2004k:14074**
Keel, Sean (*with* Sadun, Lorenzo) Oort's conjecture for $A_g \otimes \mathbb{C}$. **2004d:14064**
Lange, Herbert *see* **Birkenhake, Christina, 2004d:14063**
Melliez, Franck Duality of $(1,5)$-polarized abelian surfaces. (English summary) **2004k:14075**
Richartz, Melanie ★ Klassifikation von selbstdualen Dieudonnégittern in einem drei-dimensionalen polarisierten supersingulären Isokristall. (German) [Classification of self-dual Dieudonné lattices in a three-dimensional polarized supersingular isocrystal] **2004d:14065**
Sadun, Lorenzo *see* **Keel, Sean, 2004d:14064**
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Spandaw, J. G. *see* **Sankaran, G. K., 2004c:14085**
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Andreatta, Fabrizio The small Schottky-Jung locus in positive characteristics different from two. (English and French summaries) **2004c:14057**
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Iyer, Jaya N. The de Rham bundle on a compactification of moduli space of abelian varieties. (English summary) **2004a:14005**
Kapustin, Anton (*with* Orlov, D. O.) Vertex algebras, mirror symmetry, and D-branes: the case of complex tori. (English summary) **2004b:14073**
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Orlov, D. O. Derived categories of coherent sheaves on abelian varieties and equivalences between them. (Russian. Russian summary) **2004b:14027**
— *see also* **Kapustin, Anton, 2004b:14073**
Pirola, Gian Pietro (*with* Zucconi, Francesco) Variations of the Albanese morphisms. (English summary) **2004i:14041**
Umegaki, Atsuki Determination of all $\mathbb{Q}$-rational CM-points in moduli spaces of polarized abelian surfaces. (English summary) **2004a:11049**
Wazir, Rania A bound for the average rank of a family of abelian varieties. (English and Italian summaries) **2004m:11087**
Yu, Chia-Fu Lifting abelian varieties with additional structures. **2004m:14095**
Zucconi, Francesco *see* **Pirola, Gian Pietro, 2004i:14041**

14K12 Subvarieties

Pareschi, Giuseppe (*with* Popa, Mihnea) Regularity on abelian varieties. I. **2004c:14086**
Pink, Richard (*with* Roessler, Damien) On Hrushovski's proof of the Manin-Mumford conjecture. (English summary) **2004f:14062**
Popa, Mihnea *see* **Pareschi, Giuseppe, 2004c:14086**
Roessler, Damien *see* **Pink, Richard, 2004f:14062**

14K15 Arithmetic ground fields [see also 11Dxx, 11Fxx, 11Gxx, 14Gxx]

Abbes, Ahmed Canonical subgroups and p-adic vanishing cycles on abelian varieties.
Diem, Claus (*with* Naumann, Niko) On the structure of Weil restrictions of abelian varieties. (English summary) **2004m:14096**
Ichikawa, Takashi Heights on a subvariety of an abelian variety. (English summary) **2004k:14076**
Naumann, Niko *see* **Diem, Claus, 2004m:14096**

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Dieulefait, Luis Víctor Modularity of abelian surfaces with quaternionic multiplication. (English summary) **2004b:11084**
Iovita, Adrian (*with* Werner, Annette) p-adic height pairings on abelian varieties with semistable ordinary reduction. (English summary) **2004j:11066**
Köhler, Kai (*with* Roessler, Damien) A fixed point formula of Lefschetz type in Arakelov geometry. IV. The modular height of C.M. abelian varieties. (English summary) **2004e:11064**
Kulesz, Leopoldo Families of elliptic curves of high rank with nontrivial torsion group over $\mathbb{Q}$. **2004b:11077**
Masser, D. W. Heights, transcendence, and linear independence on commutative group varieties. **2004k:11122**

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Rémond, Gaël Approximation diophantienne sur les variétés semi-abéliennes. (English and French summaries) [Diophantine approximation on semi-abelian varieties] **2004d:11064**
— (*with* Viada, Evelina) Problème de Mordell-Lang modulo certaines sous-variétés abéliennes. [Mordell-Lang problem modulo certain abelian subvarieties] **2004h:11054**
Richartz, Melanie ★ Klassifikation von selbstdualen Dieudonnégittern in einem drei-dimensionalen polarisierten supersingulären Isokristall. (German) [Classification of self-dual Dieudonné lattices in a three-dimensional polarized supersingular isocrystal] **2004d:14065**
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Silverman, Joseph H. A lower bound for the canonical height on elliptic curves over abelian extensions. (English summary) **2004k:11106**
Stoll, Michael *see* **Schaefer, Edward F.**, **2004g:11045**
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Weston, Thomas Alexander Kummer theory of abelian varieties and reductions of Mordell-Weil groups. **2004h:11055**
Yoshida, Teruyoshi Finiteness theorems in the class field theory of varieties over local fields. (English summary) **2004a:14027**

14K20 Analytic theory; abelian integrals and differentials

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Ènol′skiĭ, V. Z. *see* **Eilbeck, J. C. et al.**, **2004b:14079**
Previato, Emma *see* **Eilbeck, J. C. et al.**, **2004b:14079**
Wang, Shi Kun (*with* Zhao, Di) A Hadamard theorem on algebraic curves. (Chinese. English and Chinese summaries) **2004b:14080**
Zhao, Di *see* **Wang, Shi Kun**, **2004b:14080**

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Archinard, Natália Hypergeometric abelian varieties. (English summary) **2004i:11056**
Dorey, Nick (*with* Hollowood, Timothy J.; Prem Kumar, S.; Sinkovics, Annamaria) Exact superpotentials from matrix models. (English summary) **2004f:81214**
— (*with* Hollowood, Timothy J.; Prem Kumar, S.; Sinkovics, Annamaria) Massive vacua of $\mathcal{N} = 1^*$ theory and S-duality from matrix models. (English summary) **2004f:81215**
Feldman, Joel (*with* Knörrer, Horst; Trubowitz, Eugene) ★ Riemann surfaces of infinite genus. **2004k:14057**
Hollowood, Timothy J. *see* **Dorey, Nick et al.**, **2004f:81214** *and* **2004f:81215**
Knörrer, Horst *see* **Feldman, Joel et al.**, **2004k:14057**
Matone, Marco The affine connection of supersymmetric $\mathrm{SO}(N)/\mathrm{Sp}(N)$. (English summary) **2004m:81253**
Noguchi, Junjiro (*with* Winkelmann, Jörg) A note on jets of entire curves in semi-abelian varieties. (English summary) **2004h:32016**
Polishchuk, Alexander ★ Abelian varieties, theta functions and the Fourier transform. **2004m:14094**
Prem Kumar, S. *see* **Dorey, Nick et al.**, **2004f:81214** *and* **2004f:81215**
Sinkovics, Annamaria *see* **Dorey, Nick et al.**, **2004f:81214** *and* **2004f:81215**
Tankeev, S. G. On the standard conjecture for complex abelian schemes over smooth projective curves. (Russian. Russian summary) **2004h:14014**
Trubowitz, Eugene *see* **Feldman, Joel et al.**, **2004k:14057**
Umeno, Takashi Period matrices for quasi-abelian varieties. (English summary) **2004c:32029**
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14K22 Complex multiplication [see also 11G15]

Matsutani, Shigeki Recursion relation of hyperelliptic psi-functions of genus two. (English summary) **2004m:14097**
Yu, Chia-Fu The isomorphism classes of abelian varieties of CM-type. (English summary) **2004k:14077**

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Hazama, Fumio On the general Hodge conjecture for abelian varieties of CM-type. (English summary) **2004k:14014**
Köhler, Kai (*with* Roessler, Damien) A fixed point formula of Lefschetz type in Arakelov geometry. IV. The modular height of C.M. abelian varieties. (English summary) **2004e:11064**
Matone, Marco Eigenfunctions of the Laplacian acting on degree zero bundles over special Riemann surfaces. (English summary) **2004m:58051**
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14K25 Theta functions [see also 14H42]

Birkenhake, Christina (*with* Vanhaecke, Pol) The vanishing of the theta function in the KP direction: a geometric approach. (English summary) **2004a:14045**
Naie, Daniel Variétés de Kummer généralisées. [Generalized Kummer varieties] **2004b:14081**
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Items with secondary classifications in 14K25

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Brown, Alexander F. p-adic theta functions and Tate curves. (English summary) (*see* **2004m:11085**)
Gómez González, E. (*with* Plaza Martín, F. J.) Addition formulae for non-abelian theta functions and applications. (English summary) **2004m:14015**
Iyer, Jaya N. Projective normality of abelian varieties. (English summary) **2004e:14070**
Koike, Kenji On the Picard modular surface for $\mathbb{Q}(\sqrt{-2})$ and related theta constants. (English summary) **2004d:14024**
(Kokotov, A. Yu.) *see* **Tyurin, Andreĭ Nikolaevich**, **2004i:53129**
Mateos Guilarte, Juan (*with* Muñoz Porras, José María) Higher order addition laws on abelian varieties and the fractional quantum Hall effect. (English summary) **2004h:14049**
Matsumoto, Keiji[1] (*with* Yoshida, Masaaki) Invariants for some real hyperbolic groups. **2004e:11045**
Muñoz Porras, José María *see* **Mateos Guilarte, Juan**, **2004h:14049**
Plaza Martín, F. J. *see* **Gómez González, E.**, **2004m:14015**
Polishchuk, Alexander ★ Abelian varieties, theta functions and the Fourier transform. **2004m:14094**
Salvati Manni, Riccardo Modular forms vanishing on the hyperelliptic locus. **2004d:11035**
Siu, Yum-Tong (*with* Yeung, Sai-Kee) Erratum: "A generalized Bloch's theorem and the hyperbolicity of the complement of an ample divisor in an abelian variety" [Math. Ann. **306** (1996), no. 4, 743–758; MR 97g:32028]. **2004d:32034**
Tyurin, Andreĭ Nikolaevich ★ Quantization, classical and quantum field theory and theta functions. **2004i:53129**
Yeung, Sai-Kee *see* **Siu, Yum-Tong**, **2004d:32034**
Yoshida, Masaaki *see* **Matsumoto, Keiji[1]**, **2004e:11045**

14K30 Picard schemes, higher Jacobians [see also 14H40, 32G20]

Markushevich, D. G. (*with* Tikhomirov, Aleksandr S.) A parametrization of the theta divisor of the quartic double solid. **2004k:14078**
Ramachandran, Niranjan One-motives and a conjecture of Deligne. (English summary) **2004i:14051**
Schröer, Stefan The strong Franchetta conjecture in arbitrary characteristics. (English summary) **2004c:14087**
Tikhomirov, Aleksandr S. New component of the moduli space $M(2; 0, 3)$ of stable vector bundles on the double space $\mathbf{P}^3$ of index two. (English summary) **2004b:14082**
— *see also* **Markushevich, D. G.**, **2004k:14078**

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Aubry, Yves (*with* Perret, Marc) Divisibility of zeta functions of curves in a covering. (English summary) **2004m:11092**
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— On algebraic 1-motives related to Hodge cycles. (English summary) **2004f:14018**
Campana, Frédéric (*with* Peternell, Thomas; Zhang, Qi[1]) On the Albanese maps of compact Kähler manifolds. (English summary) **2004e:32020**
van Geemen, B. (*with* Izadi, E.) Half twists and the cohomology of hypersurfaces. (English summary) **2004e:14017**
Izadi, E. *see* **van Geemen, B.**, **2004e:14017**
Markushevich, D. G. (*with* Tikhomirov, Aleksandr S.) Symplectic structure on a moduli space of sheaves on a cubic fourfold. (Russian. Russian summary) **2004c:14083**
Matsumoto, Keiji[1] (*with* Terasoma, Tomohide) Theta constants associated to cubic threefolds. (English summary) **2004h:14041**
Perret, Marc *see* **Aubry, Yves**, **2004m:11092**
Peternell, Thomas *see* **Campana, Frédéric et al.**, **2004e:32020**
Pirola, Gian Pietro (*with* Zucconi, Francesco) Variations of the Albanese morphisms. (English summary) **2004i:14041**
Srinivas, Vasudevan *see* **Barbieri-Viale, Luca**, **2004d:14003**
Terasoma, Tomohide *see* **Matsumoto, Keiji[1]**, **2004h:14041**
Tikhomirov, Aleksandr S. *see* **Markushevich, D. G.**, **2004c:14083**
Zhang, Qi[1] *see* **Campana, Frédéric et al.**, **2004e:32020**
Zucconi, Francesco *see* **Pirola, Gian Pietro**, **2004i:14041**

14Lxx Algebraic groups {For linear algebraic groups, see 20Gxx; for Lie algebras, see 17B45.}

14L05 Formal groups, p-divisible groups [see also 55N22]

Sekiguchi, Tsutomu (*with* Suwa, Noriyuki) A note on extensions of algebraic and formal groups. V. (English summary) **2004m:14098**
Suwa, Noriyuki *see* **Sekiguchi, Tsutomu**, **2004m:14098**
Zink, Thomas The display of a formal p-divisible group. (English summary) **2004b:14083**

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Bondarko, M. V. Links between associated additive Galois modules and computation of H^1 for local formal group modules. (English summary) **2004h:11096**
Childs, Lindsay N. (*with* Underwood, Robert Gene) Cyclic Hopf orders defined by isogenies of formal groups. (English summary) **2004i:11138**
Joshi, Kirti (*with* Kim, Minhyong) A remark on potentially semi-stable representations of Hodge-Tate type $(0, 1)$. **2004b:11071**
Kim, Minhyong *see* **Joshi, Kirti**, **2004b:11071**
Koch, Alan Monogenic Hopf algebras and local Galois module theory. (English summary) **2004d:16068**
Kottwitz, Robert E. (*with* Rapoport, Michael) On the existence of F-crystals. (English summary) **2004c:11221**
Rapoport, Michael *see* **Kottwitz, Robert E.**, **2004c:11221**
Rosen, Michael Formal Drinfeld modules. (English summary) **2004j:11056**
Underwood, Robert Gene *see* **Childs, Lindsay N.**, **2004i:11138**

14L10 Group varieties

Bombieri, Enrico (*with* Masser, D. W.; Zannier, Umberto M.) Finiteness results for multiplicatively dependent points on complex curves. **2004k:14079**
Masser, D. W. *see* **Bombieri, Enrico et al., 2004k:14079**
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Fung, Francis Y. C. On the topology of components of some Springer fibers and their relation to Kazhdan-Lusztig theory. (English summary) **2004m:20087**

14L15 Group schemes

Faltings, Gerd Group schemes with strict $\mathcal{O}$-action. (English summary) **2004i:14052**
Gan, Wee Teck (*with* Yu, Jiu-Kang) Schémas en groupes et immeubles des groupes exceptionnels sur un corps local. I. Le groupe G_2. (English and French summaries) [Group schemes and buildings of exceptional groups over a local field. I. The group G_2] **2004j:14049**
Ikai, Hisatoshi Spin groups over a commutative ring and the associated root data. (English summary) **2004c:14088**
Massold, Heinrich ★ Labile und relative Reduktionstheorie über Zahlkörpern. (German) [Labile and relative reduction theory over number fields] **2004m:14099**
Mazur, Marcin Finite group schemes and a conjecture of Kitaoka. **2004k:14080**
Mehta, Vikram B. (*with* Subramanian, Swaminathan) On the fundamental group scheme. **2004c:14089**
Nahlus, Nazih Lie algebras and separable morphisms in pro-affine algebraic groups. (English summary) **2004f:14063**
Raynaud, Michel Groupes vectoriels et schéma de Picard. (English and French summaries) [Vector groups and Picard scheme] **2004k:14081**
Saïdi, Mohamed Torsors under finite and flat group schemes of rank p with Galois action. (English summary) **2004i:14053**
Subramanian, Swaminathan *see* **Mehta, Vikram B., 2004c:14089**
Tsuchiya, Kazuyoshi On the descriptions of $\mathbf{Z}/p^2\mathbf{Z}$-torsors by the Kummer-Artin-Schreier-Witt theory. **2004h:14050**
Yu, Jiu-Kang *see* **Gan, Wee Teck, 2004j:14049**

Items with secondary classifications in 14L15

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Endo, Noritsugu On the unit group of the group ring $\mathbb{Z}[G]$. **2004b:16046**
Gasbarri, Carlo Heights of vector bundles and the fundamental group scheme of a curve. (English summary) **2004c:14047**
van Hamel, Joost *see* **Scheiderer, Claus, 2004m:14041**
Jardine, J. F. Finite group torsors for the qfh topology. (English summary) **2004e:14038**
Magid, Andy R. The Picard-Vessiot closure in differential Galois theory. **2004d:12010**
Moret-Bailly, Laurent Sur la R-équivalence de torseurs sous un groupe fini. (English and French summaries) [R-equivalence of torsors under a finite group] **2004b:14034**
Nakano, Daniel K. *see* **Bendel, Christopher P. et al., 2004m:20089**
Nitsure, Nitin Representability of Hom implies flatness. (English summary) **2004k:14001**
Pillen, Cornelius *see* **Bendel, Christopher P. et al., 2004m:20089**
Scheiderer, Claus (*with* van Hamel, Joost) Cohomology of tori over p-adic curves. (English summary) **2004m:14041**

14L17 Affine algebraic groups, hyperalgebra constructions [see also 17B45, 18D35]

Bodnarchuk, Yurīĭ V. The structure of the closed overgroups of Sp_{2n} in the group of polynomial automorphisms of a symplectic space. (Ukrainian. English summary) **2004m:14100**

14L24 Geometric invariant theory [see also 13A50]

Dolgachev, Igor ★ Lectures on invariant theory. **2004g:14051**
Gómez-Mont, Xavier Some remarks on geometric invariant theory. (Spanish) (*see* **2004c:14001**)
Hausen, Jürgen A general Hilbert-Mumford criterion. (English and French summaries) **2004i:14054**
Jamet, Guillaume Differential forms and smoothness of quotients by reductive groups. (English summary) **2004a:14046**
Kumar, Chanchal Linear systems and quotients of projective space. (English summary) **2004e:14072**
Levy, Jason Rationality and orbit closures. (English summary) **2004c:14090**
Maffei, Andrea A remark on quiver varieties and Weyl groups. (English summary) **2004h:14051**

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Avritzer, D. (*with* Lange, Herbert) The moduli spaces of hyperelliptic curves and binary forms. **2004c:14051**
Bochi, Jairo Inequalities for numerical invariants of sets of matrices. (English summary) **2004f:15034**
Bonavero, Laurent Factorisation faible des applications birationnelles (d'après Abramovich, Karu, Matsuki, Włodarczyk et Morelli). (French summary) [Weak factorization of birational maps (following Abramovich, Karu, Matsuki, Włodarczyk and Morelli)] **2004g:14015**
Costa, Laura (*with* Ottaviani, Giorgio) Group action on instanton bundles over $\mathbb{P}^3$. (English summary) **2004b:14075**
Drézet, J.-M. (*with* Trautmann, G.) Moduli spaces of decomposable morphisms of sheaves and quotients by non-reductive groups. (English and French summaries) **2004c:14092**
Garrity, Thomas (*with* Grossman, Zachary) On relations of invariants for vector-valued forms. (English summary) **2004k:15056**
Grossman, Zachary *see* **Garrity, Thomas, 2004k:15056**
Lange, Herbert *see* **Avritzer, D., 2004c:14051**
Loeser, François Motivic zeta functions for prehomogeneous vector spaces and castling transformations. (English summary) **2004h:11100**
Mehta, Vikram B. Seshadri's contributions to moduli and geometric invariant theory. (*see* **2004f:14002**)
Mukai, Shigeru ★ An introduction to invariants and moduli. **2004g:14002**
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Ottaviani, Giorgio *see* **Costa, Laura, 2004b:14075**
(Oxbury, W. M.) *see* **Mukai, Shigeru, 2004g:14002**
Reineke, Markus The Harder-Narasimhan system in quantum groups and cohomology of quiver moduli. (English summary) **2004a:16028**
Ressayre, Nicolas Quotients of group completions by spherical subgroups. (English summary) **2004c:14099**
(Seshadri, C. S.) *see* **Mehta, Vikram B., (2004f:14002)**
Sohoni, Milind *see* **Mulmuley, Ketan, 2004h:68048**
Teleman, Constantin (*with* Woodward, Christopher) Parabolic bundles, products of conjugacy classes and Gromov-Witten invariants. (English and French summaries) **2004g:14053**
Trautmann, G. *see* **Drézet, J.-M., 2004c:14092**
Varagnolo, Michela (*with* Vasserot, Eric) Perverse sheaves and quantum Grothendieck rings. (English summary) **2004d:17023**
Vasserot, Eric *see* **Varagnolo, Michela, 2004d:17023**
Woodward, Christopher *see* **Teleman, Constantin, 2004g:14053**
Woolf, Jonathan The decomposition theorem and the intersection cohomology of quotients in algebraic geometry. (English summary) **2004h:14031**

14L30 Group actions on varieties or schemes (quotients) [see also 13A50, 14L24]

Andreatta, Marco (*with* Wiśniewski, Jarosław A.) On quasihomogeneous manifolds—via Brion-Luna-Vust theorem. (English and Italian summaries) **2004m:14101**
Božičević, Mladen Coherent continuation on the category of $(\mathfrak{g}, K)$-modules. (English summary) **2004c:14091**
Drézet, J.-M. (*with* Trautmann, G.) Moduli spaces of decomposable morphisms of sheaves and quotients by non-reductive groups. (English and French summaries) **2004c:14092**
Fu, Baohua Symplectic resolutions for covering of nilpotent orbits. (English and French summaries) **2004d:14066**
Hashimoto, Mitsuyasu "Geometric quotients are algebraic schemes" based on Fogarty's idea. (English summary) **2004j:14050**
Lauret, Jorge On the moment map for the variety of Lie algebras. (English summary) **2004d:14067**
Masuda, Kayo (*with* Miyanishi, Masayoshi) The additive group actions on $\mathbb{Q}$-homology planes. (English and French summaries) **2004e:14073**
Masuda, Mikiya Equivariant algebraic vector bundles over representations—a survey. (English summary) **2004b:14084**
Mirković, Ivan (*with* Vybornov, M. Yu.) On quiver varieties and affine Grassmannians of type A. (English and French summaries) **2004c:14093**
Miyanishi, Masayoshi *see* **Masuda, Kayo, 2004e:14073**
Panyushev, Dmitrii I. Some amazing properties of spherical nilpotent orbits. **2004j:14051**
— Regions in the dominant chamber and nilpotent orbits. (English summary) **2004j:14052**
Pervushin, D. D. On the coverings of the nilpotent orbits of fourth-order matrix pencils. (Russian. Russian summary) **2004b:14085**
Pidstrigach, V. Ya. On action of symplectomorphisms of the complex plane on pairs of matrices. (English summary) **2004j:14053**
Popov, Vladimir L. Self-dual algebraic varieties and nilpotent orbits. (English summary) **2004f:14064**
Reichstein, Zinovy (*with* Youssin, B.) A non-split torsor with trivial fixed point obstruction. (English summary) **2004g:14052**
Skrzyński, Marcin Irreducible algebraic sets of matrices with dominant restriction of the characteristic map. (English summary) **2004c:14094**
Summerer, Leonhard Decomposable forms and automorphisms. (English summary) **2004a:14047**
Teleman, Constantin (*with* Woodward, Christopher) Parabolic bundles, products of conjugacy classes and Gromov-Witten invariants. (English and French summaries) **2004g:14053**
Térouanne, Sophie Sur la catégorie $\mathcal{D}^{b,G}(X)$ pour G réductif fini. (English and French summaries) [$\mathcal{D}^{b,G}(X)$ for a finite reductive group G] **2004d:14068**
Timashëv, D. A. Equivariant compactifications of reductive groups. (Russian. Russian summary) **2004f:14065**
Trautmann, G. *see* **Drézet, J.-M., 2004c:14092**
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Arzhantsev, Ivan V. Algebras with finitely generated invariant subalgebras. (English and French summaries) **2004e:13009**
Balaji, V. Semistable principal bundles. (English summary) **2004e:14021**
Bayer, Thomas An algorithm for computing invariants of linear actions of algebraic groups up to a given degree. (English summary) **2004c:13045**
Bender, Jens (*with* Bongartz, Klaus) Minimal singularities in orbit closures of matrix pencils. (English summary) **2004h:16014**

Berchtold, Florian (*with* Hausen, Jürgen) Homogeneous coordinates for algebraic varieties. (English summary) **2004e:14004**
— (*with* Hausen, Jürgen) Bunches of cones in the divisor class group—a new combinatorial language for toric varieties. **2004m:14111**
Berhuy, Grégory (*with* Favi, Giordano) Essential dimension: a functorial point of view (after A. Merkurjev). (English summary) **2004m:11056**
Bongartz, Klaus (*with* Fritzsche, Thomas) On minimal disjoint degenerations for preprojective representations of quivers. (English summary) **2004g:16013**
— *see also* **Bender, Jens, 2004h:16014**
Bonnafé, Cédric Actions of relative Weyl groups. I. (English summary) **2004m:20096**
Borne, Niels Une formule de Riemann-Roch équivariante pour les courbes. (French summary) [An equivariant Riemann-Roch formula for curves] **2004f:14022**
Brion, Michel The cone of effective one-cycles of certain G-varieties. (English summary) **2004m:14008**
Brylinski, Ranee K. Dixmier algebras for classical complex nilpotent orbits via Kraft-Procesi models. I. (English summary) **2004f:17019**
Chen, Yu[4] (*with* Dyer, Matthew) On the combinatorics of $B \times B$-orbits on group compactifications. (English summary) **2004e:20065**
Cohen, Arjeh M. (*with* Draisma, Jan) From Lie algebras of vector fields to algebraic group actions. (English summary) **2004a:17025**
Costa, Antonio F. (*with* Natanzon, Sergei M.) Topological classification of Z_p^m actions on surfaces. **2004c:14054a**
— *see also* **Addenda: "Topological classification of Z_p^m actions on surfaces", 2004c:14054b**
Costa, Laura (*with* Ottaviani, Giorgio) Group action on instanton bundles over $\mathbb{P}^3$. (English summary) **2004b:14075**
Crawley-Boevey, William (*with* Schröer, Jan) Irreducible components of varieties of modules. (English summary) **2004a:16020**
— Normality of Marsden-Weinstein reductions for representations of quivers. (English summary) **2004c:16017**
Denef, Jan (*with* Loeser, François) Motivic integration, quotient singularities and the McKay correspondence. (English summary) **2004e:14010**
Dolgachev, Igor ★ Lectures on invariant theory. **2004g:14051**
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Draisma, Jan *see* **Cohen, Arjeh M., 2004a:17025**
Dyer, Matthew *see* **Chen, Yu[4], 2004e:20065**
Edidin, Dan (*with* Graham, William A.) Riemann-Roch for quotients and Todd classes of simplicial toric varieties. (English summary) **2004h:14015**
Elezi, Artur Mirror symmetry for concavex vector bundles on projective spaces. (English summary) **2004c:14106**
Favi, Giordano *see* **Berhuy, Grégory, 2004m:11056**
Fritzsche, Thomas *see* **Bongartz, Klaus, 2004g:16013**
Fu, Baohua Symplectic resolutions for nilpotent orbits. II. (English and French summaries) **2004h:14023**
Goto, Yasuhiro $K3$ surfaces with symplectic group actions. (English summary) **2004i:14043**
Graham, William A. *see* **Edidin, Dan, 2004h:14015**
Gurjar, R. V. On a generalization of Mumford's result and related question. (English summary) **2004d:14010**
Hausen, Jürgen A general Hilbert-Mumford criterion. (English and French summaries) **2004i:14054**
— *see also* **Berchtold, Florian, 2004e:14004** *and* **2004m:14111**
Ilangovan, S. (*with* Mehta, Vikram B.; Parameswaran, A. J.) Semistability and semisimplicity in representations of low height in positive characteristic. (English summary) **2004m:14089**
Iskovskikh, V. A. Two nonconjugate embeddings of the group $S_3 \times Z_2$ into the Cremona group. (Russian. Russian summary) **2004k:14022**
Katsabekis, Anargyros (*with* Thoma, Apostolos) Toric sets and orbits on toric varieties. (English summary) **2004b:14089**
Kiem, Young-Hoon Intersection cohomology of quotients of nonsingular varieties. **2004m:14035**
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Kosakowska, Justyna Sincere posets of finite prinjective type with three maximal elements and their sincere prinjective representations. (English summary) **2004a:16030**
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Loeser, François *see* **Denef, Jan, 2004e:14010**
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McNinch, George J. (*with* Sommers, Eric) Component groups of unipotent centralizers in good characteristic. (English summary) **2004d:20054**
Mehta, Vikram B. *see* **Ilangovan, S. et al., 2004m:14089**
Miyanishi, Masayoshi (*with* Zhang, De-Qi) Equivariant classification of Gorenstein open log del Pezzo surfaces with finite group actions. (English summary) **2004j:14043**
Mukai, Shigeru ★ An introduction to invariants and moduli. **2004g:14002**
Nakajima, Haruhisa Equidimensional actions of algebraic tori on normal graded domains. **2004b:14104**
Nakajima, Hiraku Geometric construction of representations of affine algebras. (English summary) **2004e:17012**
Natanzon, Sergei M. *see* **Costa, Antonio F., 2004c:14054a; 2004c:14054b** *and* **Addenda: "Topological classification of Z_p^m actions on surfaces", 2004c:14054b**
Noohi, B. Fundamental groups of algebraic stacks. (English summary) **2004k:14003**
Ottaviani, Giorgio *see* **Costa, Laura, 2004b:14075**
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Parameswaran, A. J. *see* **Ilangovan, S. et al., 2004m:14089**
Premet, Alexander Nilpotent orbits in good characteristic and the Kempf-Rousseau theory. (English summary) **2004i:17014**
Renner, Lex E. An explicit cell decomposition of the wonderful compactification of a semisimple algebraic group. (English summary) **2004a:20052**
Ressayre, Nicolas Quotients of group completions by spherical subgroups. (English summary) **2004c:14099**
Rittatore, Alvaro Reductive embeddings are Cohen-Macaulay. (English summary) **2004a:14048**
Schröer, Jan *see* **Crawley-Boevey, William, 2004a:16020**
Seitz, Gary M. *see* **Lawther, Ross et al., 2004c:20079**
Shipman, Barbara A. Fixed points of unipotent group actions in Bruhat cells of a flag manifold. (English summary) **2004f:14072**
Sommers, Eric Normality of nilpotent varieties in E_6. (English summary) **2004i:20085**
— *see also* **McNinch, George J., 2004d:20054**
Thoma, Apostolos *see* **Katsabekis, Anargyros, 2004b:14089**
Weyman, Jerzy ★ Cohomology of vector bundles and syzygies. **2004d:13020**
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Zwara, Grzegorz An orbit closure for a representation of the Kronecker quiver with bad singularities. (English summary) **2004j:16018**

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"Topological classification of Z_p^m actions on surfaces" Addendum: "Topological classification of Z_p^m actions on surfaces" [Michigan Math. J. **50** (2002), no. 3, 451–460] by A. F. Costa and S. M. Natanzon. **2004c:14054b**

14L35 Classical groups (geometric aspects) [see also 20Gxx, 51N30]

Buchheim, Christoph (*with* Frommer, Henning) Réduction des tores déployés par une extension modérément ramifiée. (English and French summaries) [Reduction of tori split over tamely ramified extensions]
Frommer, Henning *see* **Buchheim, Christoph**

Items with secondary classifications in 14L35

Derksen, Harm (*with* Weyman, Jerzy) Generalized quivers associated to reductive groups. (English summary) **2004f:16021**
Friedman, Robert David (*with* Morgan, John W.) Exceptional groups and del Pezzo surfaces. **2004b:14061**
Morgan, John W. *see* **Friedman, Robert David, 2004b:14061**
Neretin, Yurii A. Geometry of $\mathrm{GL}_n(\mathbb{C})$ at infinity: hinges, complete collineations, projective compactifications, and universal boundary. **2004f:14073**
Steinbach, Anja Groups of Lie type generated by long root elements in $F_4(K)$. (English summary) **2004a:20053**
Weyman, Jerzy *see* **Derksen, Harm, 2004f:16021**

14L40 Other algebraic groups (geometric aspects)

Items with secondary classifications in 14L40

Sommers, Eric Normality of nilpotent varieties in E_6. (English summary) **2004i:20085**

14L99 None of the above, but in this section

Items with secondary classifications in 14L99

Anderson, Jared E. A polytope calculus for semisimple groups. (English summary) **2004a:20047**
Balaji, V. (*with* Biswas, Indranil; Nagaraj, D. S.) Ramified G-bundles as parabolic bundles. (English summary) **2004i:14035**
Biswas, Indranil *see* **Balaji, V. et al., 2004i:14035**
Nagaraj, D. S. *see* **Balaji, V. et al., 2004i:14035**
Rohorlich, David E. Homomorphisms into groups of formal power series.

14Mxx Special varieties

14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [see also 13F45, 13H10]

Ballico, Edoardo On the minimal free resolution of multiple curves. (English summary) **2004m:14102**
— (*with* Chiarli, Nadia; Greco, Silvio) Projective curves: multisecant schemes and lifting problems. (English summary) **2004e:14074**
Bocci, C. (*with* Dalzotto, G.) Gorenstein points in $\mathbb{P}^3$. (English summary) **2004f:14066**
Budur, Nero (*with* Casanellas, Marta; Gorla, Elisa) Hilbert functions of irreducible arithmetically Gorenstein schemes. (English summary) **2004j:14054**
Casanellas, Marta Uniqueness of varieties of minimal degree containing a given scheme. (English summary) **2004m:14103**
— *see also* **Budur, Nero et al., 2004j:14054**
Chiarli, Nadia *see* **Ballico, Edoardo et al., 2004e:14074**
Dalzotto, G. *see* **Bocci, C., 2004f:14066**
Dolcetti, Alberto Arithmetically Gorenstein curves on arithmetically Cohen-Macaulay surfaces. (English summary) **2004b:14086**

Gorla, Elisa *see* **Budur, Nero et al., 2004j:14054**
Greco, Silvio *see* **Ballico, Edoardo et al., 2004e:14074**
Migliore, Juan C. (*with* Nagel, Uwe) Reduced arithmetically Gorenstein schemes and simplicial polytopes with maximal Betti numbers. (English summary) **2004k:14082**
Nagel, Uwe Characterization of some projective subschemes by locally free resolutions. (English summary) **2004i:14055**
— Non-degenerate curves with maximal Hartshorne-Rao module. (English summary) **2004g:14054**
— *see also* **Migliore, Juan C., 2004k:14082**
Rittatore, Alvaro Reductive embeddings are Cohen-Macaulay. (English summary) **2004a:14048**

Items with secondary classifications in 14M05

Abrescia, Silvia (*with* Bazzotti, Laura; Marino, Lucia) Conductor degree and socle degree. **2004g:13011**
Ballico, Edoardo Trigonal Gorenstein curves and Weierstrass points. (English summary) **2004d:14041**
— (*with* Chiarli, Nadia; Greco, Silvio) Projective schemes with degenerate general hyperplane section. II. (English summary) **2004g:14056**
— Arithmetically Cohen-Macaulay reducible curves in projective spaces. (English summary) **2004k:14091**
Bazzotti, Laura *see* **Abrescia, Silvia et al., 2004g:13011**
Casanellas, Marta Gorenstein liaison of 0-dimensional schemes. (English summary) **2004e:14075**
Chiarli, Nadia *see* **Ballico, Edoardo et al., 2004g:14056**
Evans, E. Graham, Jr. *see* **Riehl, Emily, 2004g:14060**
Geramita, Anthony V. (*with* Harima, Tadahito; Shin, Yong Su) Some special configurations of points in $\mathbb{P}^n$. **2004h:13017**
Goto, Shiro (*with* Sakurai, Hideto) The equality $I^2 = QI$ in Buchsbaum rings. (English summary) **2004m:13061**
Greco, Silvio *see* **Ballico, Edoardo et al., 2004g:14056**
Harima, Tadahito *see* **Geramita, Anthony V. et al., 2004h:13017**
Hartshorne, Robin Geometry of arithmetically Gorenstein curves in $\mathbb{P}^4$. (English summary) **2004m:14105**
Marino, Lucia On 0-dimensional schemes with all permissible conductor degrees. (English summary) **2004g:13012**
— *see also* **Abrescia, Silvia et al., 2004g:13011**
Patil, D. P. (*with* Roberts, Leslie G.) Hilbert functions of monomial curves. (English summary) **2004d:13023**
Ragusa, Alfio (*with* Zappalà, Giuseppe) Partial intersections and graded Betti numbers. (English summary) **2004h:13015**
Riehl, Emily (*with* Evans, E. Graham, Jr.) On the intersections of polynomials and the Cayley-Bacharach theorem. (English summary) **2004g:14060**
Roberts, Leslie G. *see* **Patil, D. P., 2004d:13023**
Sabadini, Irene On the Hilbert scheme of curves of degree d and genus $\binom{d-3}{2} - 1$. (English summary) **2004h:14007**
Sakurai, Hideto *see* **Goto, Shiro, 2004m:13061**
Schenzel, Peter On curves of small degree on a normal rational surface scroll. (English summary) **2004m:14058**
Shin, Yong Su *see* **Geramita, Anthony V. et al., 2004h:13017**
Van Tuyl, Adam The border of the Hilbert function of a set of points in $\mathbb{P}^{n_1} \times \cdots \times \mathbb{P}^{n_k}$. (English summary) **2004b:13018**
Zappalà, Giuseppe *see* **Ragusa, Alfio, 2004h:13015**

14M06 Linkage [see also 13C40]

Casanellas, Marta Gorenstein liaison of 0-dimensional schemes. (English summary) **2004e:14075**
Casnati, Gianfranco (*with* Catanese, Fabrizio) Quadratic sheaves and self-linkage. **2004b:14087**
Catanese, Fabrizio *see* **Casnati, Gianfranco, 2004b:14087**
Chardin, Marc (*with* Ulrich, Bernd) Liaison and Castelnuovo-Mumford regularity. (English summary) **2004c:14095**
Di Gennaro, Roberta On the Hartshorne-Rao module of curves on rational normal scrolls. (English summary) **2004f:14067**
Ferraro, Rita Linkage on arithmetically Cohen-Macaulay schemes with application to the classification of curves of maximal genus. (English summary) **2004m:14104**
Folegatti, C. On linked surfaces in $\mathbb{P}^4$. (English summary) **2004c:14096**
Hartshorne, Robin Experiments with Gorenstein liaison. (English summary) **2004f:14068**
— Geometry of arithmetically Gorenstein curves in $\mathbb{P}^4$. (English summary) **2004m:14105**
Migliore, Juan C. (*with* Nagel, Uwe) Liaison and related topics: notes from the Torino workshop-school. (English summary) **2004h:14052**
Miró-Roig, Rosa M. Complete intersection liaison and Gorenstein liaison: new results and open problems. **2004f:14069**
Nagel, Uwe (*with* Notari, Roberto; Spreafico, Maria Luisa) On the even Gorenstein liaison classes of ropes on a line. (English summary) **2004d:14070**
— *see also* **Migliore, Juan C., 2004h:14052**
Notari, Roberto *see* **Nagel, Uwe et al., 2004d:14070**
Spreafico, Maria Luisa *see* **Nagel, Uwe et al., 2004d:14070**
Ulrich, Bernd *see* **Chardin, Marc, 2004c:14095**

Items with secondary classifications in 14M06

Casanellas, Marta Uniqueness of varieties of minimal degree containing a given scheme. (English summary) **2004m:14103**
Chardin, Marc (*with* D'Cruz, Clare) Castelnuovo-Mumford regularity: examples of curves and surfaces. **2004m:13036**
D'Cruz, Clare *see* **Chardin, Marc, 2004m:13036**
Johnson, Mark Ray Liaison of product varieties. **2004m:13035**
Martin-Deschamps, Mireille From coherent sheaves to curves in $\mathbb{P}^3$. **2004f:14058**
Migliore, Juan C. (*with* Nagel, Uwe) Reduced arithmetically Gorenstein schemes and simplicial polytopes with maximal Betti numbers. (English summary) **2004k:14082**
Nagel, Uwe (*with* Notari, Roberto; Spreafico, Maria Luisa) Curves of degree two and ropes on a line: their ideals and even liaison classes. (English summary) **2004f:13016**
— *see also* **Migliore, Juan C., 2004k:14082**
Notari, Roberto *see* **Nagel, Uwe et al., 2004f:13016**
Spreafico, Maria Luisa *see* **Nagel, Uwe et al., 2004f:13016**

14M07 Low codimension problems

Ellia, Philippe A survey on the classification of codimension two subvarieties of $\mathbb{P}^n$. **2004f:14070**

Items with secondary classifications in 14M07

Abrescia, Silvia (*with* Bazzotti, Laura; Marino, Lucia) Conductor degree and socle degree. **2004g:13011**
Bazzotti, Laura *see* **Abrescia, Silvia et al., 2004g:13011**
Casnati, Gianfranco (*with* Catanese, Fabrizio) Quadratic sheaves and self-linkage. **2004b:14087**
Catanese, Fabrizio *see* **Casnati, Gianfranco, 2004b:14087**
Geramita, Anthony V. (*with* Harima, Tadahito; Shin, Yong Su) Some special configurations of points in $\mathbb{P}^n$. **2004h:13017**
Harima, Tadahito *see* **Geramita, Anthony V. et al., 2004h:13017**
Hartshorne, Robin Experiments with Gorenstein liaison. (English summary) **2004f:14068**
Mandal, Satya (*with* Purnaprajna, Bangere P.) Complete intersections and cancellation of projective modules. **2004b:13011**
Marino, Lucia *see* **Abrescia, Silvia et al., 2004g:13011**
Purnaprajna, Bangere P. *see* **Mandal, Satya, 2004b:13011**
Shin, Yong Su *see* **Geramita, Anthony V. et al., 2004h:13017**

14M10 Complete intersections [see also 13C40]

Items with secondary classifications in 14M10

Ambro, Florin Inversion of adjunction for non-degenerate hypersurfaces. (English summary) **2004h:14026**
Ballico, Edoardo (*with* Chiarli, Nadia; Greco, Silvio) Projective curves: multisecant schemes and lifting problems. (English summary) **2004e:14074**
Campana, Frédéric (*with* Peternell, Thomas; Pukhlikov, A. V.) The generalized Tsen theorem and rationally connected Fano fibrations. (Russian. Russian summary) **2004h:14046**
Chiarli, Nadia *see* **Ballico, Edoardo et al., 2004e:14074**
Dais, Dimitrios I. (*with* Henk, Martin) On the equations defining toric l.c.i.-singularities. (English summary) **2004f:14074**
Esnault, Hélène (*with* Wan, Daqing) Hodge type of the exotic cohomology of complete intersections. (English and French summaries) **2004c:14034**
Greco, Silvio *see* **Ballico, Edoardo et al., 2004e:14074**
Henk, Martin *see* **Dais, Dimitrios I., 2004f:14074**
Maloo, Alok Kumar (*with* Sengupta, Indranath) Criterion for complete intersection of certain monomial curves. (English summary) **2004e:13019**
Mandal, Satya (*with* Purnaprajna, Bangere P.) Complete intersections and cancellation of projective modules. **2004b:13011**
Peternell, Thomas *see* **Campana, Frédéric et al., 2004h:14046**
Pukhlikov, A. V. *see* **Campana, Frédéric et al., 2004h:14046**
Purnaprajna, Bangere P. *see* **Mandal, Satya, 2004b:13011**
Sengupta, Indranath *see* **Maloo, Alok Kumar, 2004e:13019**
Soares, Márcio Gomes Meromorphic fields tangent to projective varieties. (Portuguese) **2004d:32046**
Wan, Daqing *see* **Esnault, Hélène, 2004c:14034**

14M12 Determinantal varieties [see also 13C40]

Abrescia, Silvia A characterization of degenerate tridimensional tensors. (English summary) **2004j:14055**

Items with secondary classifications in 14M12

Belkale, Prakash (*with* Brosnan, Patrick) Matroids, motives, and a conjecture of Kontsevich. (English summary) **2004g:14025**
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14M30 Supervarieties [see also 32C11, 58A50]

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14Nxx Projective and enumerative geometry [see also 51–XX]

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14N05 Projective techniques [see also 51N35]

Alzati, Alberto (*with* Russo, Francesco) The usual Castelnuovo's argument and special subhomaloidal systems of quadrics. (English summary) **2004h:14053**
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— An effective Bertini theorem over finite fields. (English summary) **2004h:14054**
— (*with* Chiarli, Nadia; Greco, Silvio) Projective schemes with degenerate general hyperplane section. II. (English summary) **2004g:14056**
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— (*with* Fontanari, Claudio) On the secant varieties to the osculating variety of a Veronese surface. (English summary) **2004e:14078**
— Grassmannians of secant varieties. (English summary) **2004g:14057**
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— Postulation of general unions of a large number zero-dimensional schemes. (English summary) **2004k:14092**
— On zero-dimensional subschemes of projective spaces. (English summary) **2004b:14091**
— Curves in a projective space with several general secant lines. (English summary) **2004d:14075**
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— Fat points on scrolls on curves. (English summary) **2004m:14114**
— Postulation of finite unions of lines in projective spaces. (English summary) **2004j:14060**
— Families of fat points. (English summary) **2004m:14115**
— (*with* Fontanari, Claudio) Gaussian maps, the Zak map and projective extensions of singular varieties. (English summary) **2004h:14055**
— Projective curves and unramified projections. (English summary) **2004k:14093**
— On the joins of osculating linear spaces to projective varieties. (English summary)
— On the contact loci of tangent hyperplanes to varieties in a projective space. (English summary)
— Inner projections and generalizations of property N_p for non-linearly embedded projective varieties. (English summary)
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— Osculating spaces of subvarieties of Grassmannians. (English summary)
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Ferraro, Rita Curves of maximal genus in $\mathbb{P}^5$. (English summary) **2004k:14094**
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Riehl, Emily (*with* Evans, E. Graham, Jr.) On the intersections of polynomials and the Cayley-Bacharach theorem. (English summary) **2004g:14060**
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Ugaglia, Luca Projecting 4-folds from $G(1,5)$ to $G(1,4)$. (English summary) **2004a:14053**
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— Infinite-dimensional complex projective varieties. (English summary) **2004h:32019**
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— (*with* Orecchia, Ferruccio) Connected genus zero configurations of lines in projective spaces and postulation. (English summary) **2004b:14047**
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— Weierstrass points of line bundles and linear systems on unreduced curves. (English summary) **2004j:14034**
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— General sets and base loci of very ample linear systems. (English summary)
— On the postulation of some general zero-dimensional schemes. (English summary) **2004k:13029**
— Linear and quadratic sections of Grassmannians over a finite field. (English summary) **2004a:14026**
— On two theorems of Bertini for infinite-dimensional projective spaces. (English summary) **2004m:32037**
— Trees in projective spaces: normal bundles and extremal hyperplane sections. (English summary) **2004k:14055**
Brundu, Michela (*with* Sacchiero, Gianni) On rational surfaces ruled by conics. (English summary) **2004k:14062**

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Simis, Aron ★ Remarkable graded algebras in algebraic geometry.
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14N10 Enumerative problems (combinatorial problems)

Hazama, Fumio Rational curves on rational surfaces. (English summary) **2004h:14057**
Katz, Gabřiel How tangents solve algebraic equations, or a remarkable geometry of discriminant varieties. (English summary) **2004m:14117**
Lando, Sergei Ramified coverings of the two-dimensional sphere and intersection theory in spaces of meromorphic functions on algebraic curves. (Russian. Russian summary) **2004c:14100**
Megyesi, Gábor (*with* Sottile, Frank; Theobald, Thorsten) Common transversals and tangents to two lines and two quadrics in $\mathbb{P}^3$. (English summary) **2004k:14095**
Mikhalkin, G. B. Counting curves via lattice paths in polygons. (English and French summaries) **2004d:14077**
Sottile, Frank *see* **Megyesi, Gábor et al., 2004k:14095**
Theobald, Thorsten How to realize a given number of tangents to four unit balls in $\mathbb{R}^3$. (English summary) **2004g:14061**
— *see also* **Megyesi, Gábor et al., 2004k:14095**
Thorup, Anders How did the camera move? (English summary) **2004i:14064**
Vainsencher, Israel Hypersurfaces with up to six double points. (English summary) **2004h:14058**

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Bertram, Aaron Using symmetry to count rational curves. **2004a:14054**
Gathmann, Andreas Relative Gromov-Witten invariants and the mirror formula. (English summary) **2004b:14096**
Graber, Tom (*with* Vakil, Ravi) Hodge integrals and Hurwitz numbers via virtual localization. (English summary) **2004c:14108**
Iqbal, Amer (*with* Kashani-Poor, Amir-Kian) Instanton counting and Chern-Simons theory. (English summary) **2004m:81154**
Itenberg, Ilia (*with* Kharlamov, Viatcheslav; Shustin, Evgenīĭ) Welschinger invariant and enumeration of real rational curves. **2004h:14065**
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Kock, Joachim Characteristic numbers of rational curves with cusp or prescribed triple contact. (English summary) **2004e:14082**
Laksov, Dan (*with* Speiser, Robert) Local and global structure of effective and cuspidal loci on Grassmannians. (English summary) **2004i:14058**
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Shadrin, S. V. Polynomial Hurwitz numbers and intersections on $\overline{\mathcal{M}}_{0,k}$. (Russian) **2004d:14032**
— Hurwitz numbers of generalized polynomials, and cycles of two-point branchings. (Russian) **2004d:14031**
Shustin, Evgenīĭ *see* **Itenberg, Ilia et al., 2004h:14065**
Sottile, Frank From enumerative geometry to solving systems of polynomials equations. (*see* **2004b:14002**)
— Enumerative real algebraic geometry. **2004j:14065**
Speiser, Robert *see* **Laksov, Dan, 2004i:14058**
Takahashi, Nobuyoshi Local and relative Gromov-Witten invariants of the projective plane. (English summary) **2004j:14062**
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Wu, Xian[1] Limiting linear subspaces on non-reduced schemes. (English summary) **2004f:14011**
Yong, Alexander Degree bounds in quantum Schubert calculus. (English summary) **2004c:14102**

14N15 Classical problems, Schubert calculus

Dionisi, Carla (*with* Fontanari, Claudio) Grassman defectivity à la Terracini. (English summary) **2004h:14059**
Fontanari, Claudio *see* **Dionisi, Carla, 2004h:14059**
Klyachko, Aleksandr Anatol'evich Vector bundles, linear representations, and spectral problems. (English summary) **2004b:14093**
Kresch, Andrew (*with* Tamvakis, Harry) Double Schubert polynomials and degeneracy loci for the classical groups. (English and French summaries) **2004d:14078**
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Ratajski, Jan *see* **Pragacz, Piotr, 2004g:14062**
Shcherbak, I. G. Rational functions with prescribed critical points. (English summary) **2004c:14101**
Sottile, Frank Elementary transversality in the Schubert calculus in any characteristic. **2004i:14065**
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Yong, Alexander Degree bounds in quantum Schubert calculus. (English summary) **2004c:14102**

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Ballico, Edoardo Osculating spaces of subvarieties of Grassmannians. (English summary)
Belkale, Prakash Transformation formulas in quantum cohomology. (English summary) **2004m:14119**
Borcea, Ciprian S. Association for flag configurations. (English summary) **2004j:14061**
Buff, Xavier (*with* Fehrenbach, Jérôme; Lochak, Pierre; Schneps, Leila; Vogel, Pierre) ★ Moduli spaces of curves, mapping class groups and field theory. **2004i:14001**
Chen, Linda Quantum cohomology of flag manifolds. (English summary) **2004a:14055**
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Fehrenbach, Jérôme *see* **Buff, Xavier et al., 2004i:14001**
Geramita, Anthony V. *see* **Chipalkatti, Jaydeep V., 2004c:13025**
Hitchin, Nigel A lecture on the octahedron. (English summary) **2004h:32031**
Lakshmibai, V. The development of standard monomial theory. II. (English summary) **2004m:14107b**
— (*with* Littelmann, P.) Richardson varieties and equivariant K-theory. (English summary) **2004e:14077**
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Musili, C. The development of standard monomial theory. I. (English summary) **2004m:14107a**
Rietsch, Konstanze Totally positive Toeplitz matrices and quantum cohomology of partial flag varieties. **2004d:14081**
Schneps, Leila *see* **Buff, Xavier et al., 2004i:14001**
Sottile, Frank From enumerative geometry to solving systems of polynomials equations. (*see* **2004b:14002**)
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14N20 Configurations of linear subspaces

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Feichtner, Eva Maria (*with* Kozlov, Dmitry N.) Abelianizing the real permutation action via blowups. **2004d:14079**
Homma, Masaaki[2] (*with* Kim, Seon Jeong; Yoo, Mi Ja) Correction to: "Projective systems supported on the complement of two linear subspaces" [Bull. Korean Math. Soc. **37** (2000), no. 3, 493–505]. (English summary) **2004m:14118**
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Kim, Seon Jeong *see* **Homma, Masaaki[2] et al., 2004m:14118**
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Nguyễn Việt Dũng[1] A model for homotopy type of the complement. (English summary) **2004j:32028**

14N25 Varieties of low degree

Items with secondary classifications in 14N25

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14N30 Adjunction problems

Andreatta, Marco Characterization theorems for the projective space and vector bundle adjunction. (English summary) **2004c:14103**

Items with secondary classifications in 14N30

Ambro, Florin Inversion of adjunction for non-degenerate hypersurfaces. (English summary) **2004h:14026**
Beltrametti, Mauro C. (*with* Di Termini, Susanna) Higher dimensional polarized varieties with non-integral nef value. (English summary) **2004j:14006**
Di Rocco, Sandra (*with* Sommese, Andrew J.) Chern numbers of ample vector bundles on toric surfaces. (English summary) **2004k:14088**
Di Termini, Susanna *see* **Beltrametti, Mauro C., 2004j:14006**
Ein, Lawrence (*with* Mustaţă, Mircea; Yasuda, Takehiko) Jet schemes, log discrepancies and inversion of adjunction. **2004f:14028**
Garber, David (*with* Teicher, Mina; Vishne, Uzi) π_1-classification of real arrangements with up to eight lines. (English summary) **2004b:32048**
Lanteri, Antonio (*with* Maeda, Hidetoshi) Ample vector bundles with zero loci having a bielliptic curve section. (English summary) **2004c:14082**
— (*with* Palleschi, Marino; Sommese, Andrew J.) Erratum: "Discriminant loci of varieties with smooth normalization" [Comm. Algebra **28** (2000), no. 9, 4179–4200; MR 2002a:14007]. **2004c:14010**

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Tironi, Andrea Luigi Reducible hyperplane sections of 4-folds: semi-nef decompositions with low sectional genera. (Italian summary) **2004i:14048**
Vishne, Uzi *see* **Garber, David et al., 2004b:32048**
Yasuda, Takehiko *see* **Ein, Lawrence et al., 2004f:14028**

14N35 Gromov-Witten invariants, quantum cohomology [see also 53D45]

Abramovich, Dan (*with* Graber, Tom; Vistoli, Angelo) Algebraic orbifold quantum products. **2004c:14104**
Belkale, Prakash Transformation formulas in quantum cohomology. (English summary) **2004m:14119**
Bertram, Aaron Using symmetry to count rational curves. **2004a:14054**
Buch, Anders Skovsted Quantum cohomology of Grassmannians. (English summary) **2004c:14105**
— (*with* Kresch, Andrew; Tamvakis, Harry) Gromov-Witten invariants on Grassmannians. **2004h:14060**
— A direct proof of the quantum version of Monk's formula. (English summary) **2004e:14081**
Chen, Linda Quantum cohomology of flag manifolds. (English summary) **2004a:14055**
Costa, Laura (*with* Miró-Roig, Rosa M.) GW-invariants and quantum products with infinitely many quantum corrections. (English summary) **2004b:14094**
— (*with* Miró-Roig, Rosa M.) Quantum cohomology for a class of non-Fano toric varieties. **2004h:14061**
Elezi, Artur Mirror symmetry for concavex vector bundles on projective spaces. (English summary) **2004c:14106**
Faber, C. (*with* Pandharipande, Rahul) Hodge integrals, partition matrices, and the λ_g conjecture. (English summary) **2004b:14095**
Fantechi, Barbara (*with* Göttsche, Lothar) Orbifold cohomology for global quotients. (English summary) **2004h:14062**
Gathmann, Andreas Relative Gromov-Witten invariants and the mirror formula. (English summary) **2004b:14096**
Getzler, Ezra (*with* Okounkov, Andrei; Pandharipande, Rahul) Multipoint series of Gromov-Witten invariants of $\mathbb{CP}^1$. (English summary) **2004c:14107**
Givental, Alexander (*with* Lee, Yuan-Pin) Quantum K-theory on flag manifolds, finite-difference Toda lattices and quantum groups. **2004g:14063**
Göttsche, Lothar *see* **Fantechi, Barbara, 2004h:14062**
Graber, Tom (*with* Vakil, Ravi) Hodge integrals and Hurwitz numbers via virtual localization. (English summary) **2004c:14108**
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Iqbal, Amer (*with* Kashani-Poor, Amir-Kian) Discrete symmetries of the superpotential and calculation of disk invariants. (English summary) **2004m:14120**
Jarvis, Tyler J. (*with* Kimura, Takashi[2]) Orbifold quantum cohomology of the classifying space of a finite group. (English summary) **2004a:14056**
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Kock, Joachim Characteristic numbers of rational curves with cusp or prescribed triple contact. (English summary) **2004e:14082**
Kresch, Andrew (*with* Tamvakis, Harry) Quantum cohomology of the Lagrangian Grassmannian. (English summary) **2004h:14063**
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Lee, Yuan-Pin *see* **Givental, Alexander, 2004g:14063**
Li, Jun[1] A degeneration formula of GW-invariants. (English summary) **2004k:14096**
Malikov, F. G. (*with* Schechtman, Vadim) Deformations of vertex algebras, quantum cohomology of toric varieties, and elliptic genus. (English summary) **2004a:14057**
Mare, Augustin-Liviu On the theorem of Kim concerning $QH^*(G/B)$. **2004c:14083**
Miró-Roig, Rosa M. *see* **Costa, Laura, 2004b:14094** *and* **2004h:14061**
Okounkov, Andrei *see* **Getzler, Ezra et al., 2004c:14107**
Pandharipande, Rahul *see* **Faber, C., 2004b:14095** *and* **Getzler, Ezra et al., 2004c:14107**
Rietsch, Konstanze Total positivity, flag varieties and quantum cohomology. (English summary) **2004k:14097**
— Totally positive Toeplitz matrices and quantum cohomology of partial flag varieties. **2004d:14081**
Schechtman, Vadim *see* **Malikov, F. G., 2004a:14057**
Takahashi, Nobuyoshi Local and relative Gromov-Witten invariants of the projective plane. (English summary) **2004j:14062**
Tamvakis, Harry *see* **Buch, Anders Skovsted et al., 2004h:14060** *and* **Kresch, Andrew, 2004h:14063**
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Freedman, Michael H. (*with* Walker, Kevin; Wang, Zhenghan) Quantum SU(2) faithfully detects mapping class groups modulo center. (English summary) **2004a:57037**
Graber, Tom (*with* Zaslow, Eric) Open-string Gromov-Witten invariants: calculations and a mirror "theorem". (English summary) **2004b:53149**
Greene, Brian R. Mirror symmetry: aspects of the first 10 years. **2004b:14072**
Holla, Yogish I. Counting maximal subbundles via Gromov-Witten invariants. (English summary) **2004j:14037**
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Hu, Jianxun Gromov-Witten invariants of blow-ups along semi-positive submanifold. (English summary) (*see* **2004h:00013**)
Ionel, Eleny-Nicoleta Symplectic sums and Gromov-Witten invariants. (English summary) **2004b:57035**
Katz, Sheldon H. *see* **Hori, Kentaro et al., 2004g:14042**
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Lange, Herbert (*with* Newstead, P. E.) Maximal subbundles and Gromov-Witten invariants. (English summary) **2004m:14067**
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Liu, Ai-Ko *see* **Li, Tian-Jun[1], 2004b:11052**
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Okounkov, Andrei Random trees and moduli of curves. (English summary) **2004m:14049**
Pandharipande, Rahul *see* **Hori, Kentaro et al., 2004g:14042**
Ruan, Yongbin Stringy orbifolds. **2004e:53136**
— Stringy geometry and topology of orbifolds. **2004b:32051**
— *see also* **Chen, Weimin[1], 2004k:53145**
Teleman, Constantin (*with* Woodward, Christopher) Parabolic bundles, products of conjugacy classes and Gromov-Witten invariants. (English and French summaries) **2004g:14053**
Thomas, Richard Paul *see* **Hori, Kentaro et al., 2004g:14042**
Tian, Gang (*with* Zhou, Jian) Quadratic recursion relations of Hodge integrals via localization. (English summary) **2004i:14027**
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Yong, Alexander Degree bounds in quantum Schubert calculus. (English summary) **2004c:14102**
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Melliez, Franck Duality of $(1,5)$-polarized abelian surfaces. (English summary) **2004k:14075**

14Pxx Real algebraic and real analytic geometry

14P05 Real algebraic sets [see also 12Dxx]

Ballico, Edoardo Real and non-real inflexional points of real curves in projective spaces. (English summary) **2004h:14064**
— Real theta-characteristics on real stable curves. (English summary) **2004k:14098**
— Real theta-characteristics on real projective curves. (English summary) **2004k:14099**
— Real flexes of real plane curves. (English summary) **2004k:14100**
Bibileishvili, G. On the fibers of proper real polynomial mappings. (English and Georgian summaries)
Bochnak, Jacek (*with* Kucharz, Wojciech) On approximation of smooth submanifolds by nonsingular real algebraic subvarieties. (English and French summaries) **2004j:14063**
Bonnard, Isabelle Description of algebraically contructible functions. (English summary) **2004b:14097**
Chevallier, Benoit The Viro method applied with quadratic transforms. (English summary) **2004d:14082**
Cirre, Francisco Javier The moduli space of real algebraic curves of genus 2. (English summary) **2004k:14101**
Dudziński, Piotr On the Euler characteristic of the link of a weighted homogeneous mapping. (English summary) **2004e:14084**
Fichou, G. (*with* Huisman, Johannes) A geometric description of the neutral component of the Jacobian of a real plane curve having many pseudo-lines. (English summary) **2004c:14109**
Huisman, Johannes An unramified real plane curve is a conic. **2004f:14079**
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Joglar-Prieto, Nuria (*with* Mangolte, Frédéric) Real algebraic morphisms and del Pezzo surfaces of degree 2. (English summary) **2004m:14121**
Kapovich, Michael (*with* Millson, John J.) Universality theorems for configuration spaces of planar linkages. (English summary) **2004a:14059**
Karpushkin, Vladimir Nikolaevich On the number of components of the complement to some algebraic curves. (Russian. Russian summary) **2004c:14110**
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Mangolte, Frédéric *see* **Joglar-Prieto, Nuria**, **2004m:14121**
Millson, John J. *see* **Kapovich, Michael**, **2004a:14059**
Monnier, Jean-Philippe Divisors on real curves. (English summary) **2004f:14080**
Polotovskiĭ, Grigoriĭ M. *see* **Korchagin, A. B.**, **2004a:14060**
Risler, Jean-Jacques On the curvature of the real Milnor fiber. (English summary) **2004c:14111**
Scheiderer, Claus Sums of squares on real algebraic curves. (English summary) **2004k:14103**
Shustin, Evgenīĭ *see* **Itenberg, Ilia et al.**, **2004h:14065**

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Andradas, Carlos Characterization and description of basic semialgebraic sets. (English summary) **2004f:14081**
Ballico, Edoardo (*with* Kollár, János) The Picard group of singular curves. **2004m:14007**
— Real varieties associated to complex varieties. (English summary) **2004f:32021**
Carlson, James A. *see* **Allcock, Daniel et al.**, **2004j:14040**
Castro, D. (*with* Pardo, L. M.; San Martín H., Jorge) Systems of rational polynomial equations have polynomial size approximate zeros on the average. (English summary) **2004b:11093**
Catanese, Fabrizio Deformation types of real and complex manifolds. **2004c:32024**
Dutertre, Nicolas Courbures et singularités réelles. (English and French summaries) [Curvatures and real singularities] **2004b:58065**
Ferrarotti, Massimo (*with* Fortuna, Elisabetta; Wilson, Les) Local approximation of semialgebraic sets. (English summary) **2004f:14083**
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Goresky, Mark (*with* Tai, Yung Sheng) The moduli space of real abelian varieties with level structure. (English summary) **2004k:14074**
van Hamel, Joost Towards an intersection homology theory for real algebraic varieties. **2004m:14034**
Huisman, Johannes Cubic differential forms and the group law on the Jacobian of a real algebraic curve. (English and Italian summaries) **2004m:14054**
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Koprowski, Przemyslaw Witt equivalence of algebraic function fields over real closed fields. (English summary) **2004c:11048**
Krasnov, V. A. The Brauer and the Witt group of a real ruled surface. (Russian. Russian summary) **2004e:14032**
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Rieger, J. H. Voronoi diagrams of real algebraic sets. (English summary) **2004c:14119**
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Small, Anthony Algebraic minimal surfaces in $\mathbf{R}^4$. (English summary) **2004k:53093**
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Uma, V. On the fundamental group of real toric varieties. (English summary) **2004m:14112**
Wang, Ren Hong (*with* Xu, Zhi-qiang) Estimation of the Bezout number for piecewise algebraic curve. (English summary) **2004k:65019**
Welschinger, Jean-Yves Invariants of real rational symplectic 4-manifolds and lower bounds in real enumerative geometry. (English and French summaries) **2004m:53157**
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14P10 Semialgebraic sets and related spaces

Alonso, María Emilia (*with* Lombardi, Henri) Generalized Taylor formulae, computations in real closed valued fields and quantifier elimination. (English summary) **2004a:14061**
Andradas, Carlos Characterization and description of basic semialgebraic sets. (English summary) **2004f:14081**
Basu, Saugata (*with* Pollack, Richard M.; Roy, Marie-Françoise) ★ Algorithms in real algebraic geometry. **2004g:14064**
— Different bounds on the different Betti numbers of semi-algebraic sets. (English summary) **2004f:14082**
— Computing the Betti numbers of arrangements via spectral sequences. (English summary) **2004k:14104**
Ducros, Antoine Parties semi-algébriques d'une variété algébrique p-adique. (English summary) [Semi-algebraic sets of a p-adic algebraic variety] **2004m:14122**
Ferrarotti, Massimo (*with* Fortuna, Elisabetta; Wilson, Les) Local approximation of semialgebraic sets. (English summary) **2004f:14083**
Fortuna, Elisabetta *see* **Ferrarotti, Massimo et al.**, **2004f:14083**
Fujita, Masato (*with* Shiota, Masahiro) Topological types of Pfaffian manifolds. (English summary) **2004m:14123**
Gabrièlov, A. M. (*with* Vorob′ev, Nikolaĭ, Jr.; Zell, Thierry) Betti numbers of semialgebraic and sub-Pfaffian sets. (English summary) **2004k:14105**
Grötschel, Martin (*with* Henk, Martin) The representation of polyhedra by polynomial inequalities. (English summary) **2004b:14098**
Henk, Martin *see* **Grötschel, Martin**, **2004b:14098**
Kawakami, Tomohiro Homotopy property of definable fiber bundles. (English summary) **2004c:14112**
Lombardi, Henri *see* **Alonso, María Emilia**, **2004a:14061**
Marshall, Murray A. Approximating positive polynomials using sums of squares. (English summary) **2004f:14084**
— $*$-orderings and $*$-valuations on algebras of finite Gelfand-Kirillov dimension. (English summary) **2004a:14062**
McEnerney, J. (*with* Stengle, G.) An algebraic study of affine real ultrafilters. (English summary) **2004f:14085**
Park, Dae Heui (*with* Suh, Dong Youp) Linear embeddings of semialgebraic G-spaces. (English summary) **2004d:14083**
Pawłucki, Wiesław A decomposition of a set definable in an o-minimal structure into perfectly situated sets. (English summary) **2004a:14063**
Pernazza, L. Algebraic and analytic finite spaces of orderings. (English summary) **2004k:14106**
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Powers, Victoria Positive polynomials and the moment problem for cylinders with compact cross-section. (English summary) **2004k:14107**
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Stasica, Jacek Smooth points of a semialgebraic set. (English summary) **2004k:14108**
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Ta Lê Loi Tame topology and Tarski-type systems. (English summary) **2004i:14066**
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Bernig, Andreas (*with* Bröcker, Ludwig) Lipschitz-Killing invariants. (English summary) **2004a:53098**
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Demanze, Olivier Polynomial representations via spectral decompositions. (English summary) **2004i:47029**
Dutertre, Nicolas On the Euler characteristic of semi-analytic and semi-algebraic sets. (English summary) **2004m:14124**
Grohe, Martin *see* **Benedikt, Michael et al.**, **2004d:68025**
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Marshall, Murray A. Optimization of polynomial functions. (English summary) **2004i:90135**
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Neyman, Abraham Real algebraic tools in stochastic games. **2004m:91028**
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14P15 Real analytic and semianalytic sets [see also 32B20, 32C05]

Andradas, Carlos (*with* Díaz-Cano, Antonio; Ruiz, Jesús M.) The Artin-Lang property for normal real analytic surfaces. (English summary) **2004f:14086**
Díaz-Cano, Antonio *see* **Andradas, Carlos et al.**, **2004f:14086**
Dutertre, Nicolas On the Euler characteristic of semi-analytic and semi-algebraic sets. (English summary) **2004m:14124**
Lion, Jean-Marie Finitude simple et structures o-minimales. (English and French summaries) [Simple finiteness and o-minimal structures (finiteness property implies o-minimality)] **2004c:14113**
Rolin, Jean-Philippe (*with* Speissegger, P.; Wilkie, A. J.) Quasianalytic Denjoy-Carleman classes and o-minimality. **2004g:14065**
Ruiz, Jesús M. *see* **Andradas, Carlos et al.**, **2004f:14086**
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Wilkie, A. J. *see* **Rolin, Jean-Philippe et al.**, **2004g:14065**

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D'Acunto, Didier Sur la topologie des fibres d'une fonction définissable dans une structure o-minimale. (English and French summaries) [Topology of fibers of functions definable in an o-minimal structure] **2004m:32016**
Fernandes, Alexandre Topological equivalence of complex curves and bi-Lipschitz homeomorphisms. **2004k:14004**
Gabrièlov, A. M. (*with* Zell, Thierry) On the number of connected components of the relative closure of a semi-Pfaffian family. (English summary) **2004f:32010**

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Geerts, Floris Expressing the box cone radius in the relational calculus with real polynomial constraints. (English summary) **2004j:03040**
Łojasiewicz, Stanisław (*with* Tougeron, J.-Cl.; Zurro, M.-A.) Blowup of coefficients of formal power series. (Spanish) **2004a:32014**
Pernazza, L. Algebraic and analytic finite spaces of orderings. (English summary) **2004k:14106**
Szafraniec, Zbigniew Topological invariants of real Milnor fibres. (English summary) **2004a:32045**
Ta Lê Loi Tame topology and Tarski-type systems. (English summary) **2004i:14066**
Tougeron, J.-Cl. *see* **Łojasiewicz, Stanisław et al., 2004a:32014**
Vorob′ev, Nikolaĭ, Jr. *see* **Gabrièlov, A. M. et al., 2004k:14105**
Zell, Thierry *see* **Gabrièlov, A. M. et al., 2004f:32010** *and* **2004k:14105**
Zurro, M.-A. *see* **Łojasiewicz, Stanisław et al., 2004a:32014**

14P20 Nash functions and manifolds [see also 32C07, 58A07]

Bonnard, Isabelle Nash constructible functions. (English summary) **2004g:14066**

14P25 Topology of real algebraic varieties

Bihan, F. Asymptotic behaviour of Betti numbers of real algebraic surfaces. (English summary) **2004d:14084**
Bonnard, Isabelle Combinatorial characterizations of algebraic sets. (English summary) **2004e:14085**
Catanese, Fabrizio (*with* Frediani, Paola) Real hyperelliptic surfaces and the orbifold fundamental group. (English summary) **2004c:14114**
Derval, David Variétés Galois-maximales et éclatements. (English summary) [Galois-maximal varieties and blowups] **2004f:14087**
Dudziński, Piotr On the Euler characteristic of the real Milnor fibres of an analytic function. (English summary) **2004k:14109**
Frediani, Paola *see* **Catanese, Fabrizio, 2004c:14114**
Friedland, Shmuel (*with* Libgober, Anatoly S.) Generalizations of the odd degree theorem and applications. (English summary) **2004f:14088**
Gołasiński, Marek (*with* Gómez Ruiz, Francisco) Polynomial and regular maps into Grassmannians. (English summary) **2004a:14064**
Gómez Ruiz, Francisco *see* **Gołasiński, Marek, 2004a:14064**
Huisman, Johannes Real hypersurfaces having many pseudo-hyperplanes. (English summary) **2004e:14086**
Itenberg, Ilia (*with* Shustin, Evgeniĭ) Critical points of real polynomials and topology of real algebraic T-surfaces. (English summary) **2004m:14125**
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Kalinin, I. O. Cohomological characteristics of real algebraic manifolds. (Russian. Russian summary) **2004c:14116**
Kollár, János The Nash conjecture for nonprojective threefolds. **2004c:14117**
Korchagin, A. B. (*with* Smith, Daniel Eric) Patchworking singularities A_μ and D_μ and meanders of their smoothing. (English and Russian summaries) **2004k:14110**
Krasnov, V. A. Real algebraic maximal varieties. (Russian. Russian summary) **2004k:14111**
Kucharz, Wojciech The conservation of number principle in real algebraic geometry. (English summary) **2004f:14089**
— Real divisors algebraically equivalent to zero. **2004k:14112**
— Algebraic equivalence of cycles and algebraic models of smooth manifolds. (English summary) **2004k:14113**
Li, Tien-Yien (*with* Rojas, J. Maurice; Wang, Xiaoshen) Counting real connected components of trinomial curve intersections and m-nomial hypersurfaces. (English summary) **2004g:14067**
Libgober, Anatoly S. *see* **Friedland, Shmuel, 2004f:14088**
McCrory, Clint How to show a set is not algebraic. (English summary) **2004d:14085**
— (*with* Parusiński, Adam) Virtual Betti numbers of real algebraic varieties. (English and French summaries) **2004e:14087**
Natanzon, Sergei M. (*with* Shadrin, S. V.) Topological classification of real meromorphic functions in general position on separating curves. (Russian)
Ortiz-Rodríguez, Adriana Quelques aspects sur la géométrie des surfaces algébriques réelles. (English and French summaries) [On some aspects of the geometry of real algebraic surfaces] **2004d:14086**
Parenti, Paola Symmetric orientations of dividing T-curves. (English summary) **2004j:14064**
Parusiński, Adam *see* **McCrory, Clint, 2004e:14087**
Risler, Jean-Jacques Sur la courbure totale des variétés réelles. (French summary) [On the total curvature of real varieties] **2004d:14087**
Rojas, J. Maurice *see* **Li, Tien-Yien et al., 2004g:14067**
Russo, Francesco The antibirational involutions of the plane and the classification of real del Pezzo surfaces. **2004b:14099**
Shadrin, S. V. *see* **Natanzon, Sergei M.**
Shapiro, Boris Zalmanovich (*with* Vaĭnshteĭn, A. D.) On the number of connected components in the space of M-polynomials in hyperbolic functions. (English summary) **2004e:14088**
Shustin, Evgeniĭ *see* **Itenberg, Ilia, 2004c:14115** *and* **2004m:14125**
Smith, Daniel Eric *see* **Korchagin, A. B., 2004k:14110**
Theobald, Thorsten Computing amoebas. (English summary) **2004b:14100**
Trilles, Sébastien Topologie des $(M-2)$-courbes réelles symétriques. (English summary) [Topology of symmetric real $(M-2)$-curves] **2004b:14101**
Vaĭnshteĭn, A. D. *see* **Shapiro, Boris Zalmanovich, 2004e:14088**
Wang, Ren Hong (*with* Zhu, Chun Gang) Topology of piecewise algebraic curves. (Chinese. English summary) **2004m:14126**
Wang, Xiaoshen *see* **Li, Tien-Yien et al., 2004g:14067**
Welschinger, Jean-Yves Forme d'intersection tordue et extension de la congruence d'Arnol′d. (French summary) [Twisted intersection form and extension of the Arnol′d congruence] **2004e:14089**
— Real structures on minimal ruled surfaces. (English summary) **2004e:14090**
Zhu, Chun Gang *see* **Wang, Ren Hong, 2004m:14126**

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Audin, Michèle ★ Les systèmes hamiltoniens et leur intégrabilité. (French. English, French and Portuguese summaries) [Hamiltonian systems and their integrability] **2004g:37074**
Ballico, Edoardo Discreteness for the set of complex structures on a real variety. (English summary) **2004e:32018**
Bonnard, Isabelle Description of algebraically contructible functions. (English summary) **2004b:14097**
Bürgisser, Peter Lower bounds and real algebraic geometry. (English summary) **2004f:68039**
Fortuna, Elisabetta (*with* Gianni, Patrizia; Parenti, Paola; Traverso, Carlo) Algorithms to compute the topology of orientable real algebraic surfaces. (English summary) **2004j:14066**
Gianni, Patrizia *see* **Fortuna, Elisabetta et al., 2004j:14066**
Huisman, Johannes Non-special divisors on real algebraic curves and embeddings into real projective spaces. (English summary) **2004a:14058**
— Clifford's inequality for real algebraic curves. (English summary) **2004k:14102**
Karoubi, Max (*with* Weibel, Charles) Algebraic and Real K-theory of real varieties. (English summary) **2004c:19004**
Koprowski, Przemyslaw Witt equivalence of algebraic function fields over real closed fields. (English summary) **2004c:11048**
Korchagin, A. B. (*with* Polotovskiĭ, Grigoriĭ M.) On arrangements of a plane real quintic curve with respect to a pair of lines. (English summary) **2004a:14060**
Parenti, Paola *see* **Fortuna, Elisabetta et al., 2004j:14066**
Polotovskiĭ, Grigoriĭ M. *see* **Korchagin, A. B., 2004a:14060**
Stasica, Jacek Smooth points of a semialgebraic set. (English summary) **2004k:14108**
Traverso, Carlo *see* **Fortuna, Elisabetta et al., 2004j:14066**
Weibel, Charles *see* **Karoubi, Max, 2004c:19004**

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Lai, Yi-sheng *see* **Wang, Ren Hong, 2004c:14118**
Sottile, Frank Enumerative real algebraic geometry. **2004j:14065**
Wang, Ren Hong (*with* Lai, Yi-sheng) Real piecewise aigebraic variety. (English summary) **2004c:14118**

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Borisov, Alexandr (*with* Shokurov, Vyacheslav V.) Directional rational approximations with some applications to algebraic geometry. (Russian. Russian summary) **2004h:11061**
Bott, Raoul (*with* Taubes, Cliff) A remark on integral geometry. **2004c:53125**
Dai, Zhizhong On real closed regular rings. (English summary) **2004a:13017**
Feichtner, Eva Maria (*with* Kozlov, Dmitry N.) Abelianizing the real permutation action via blowups. **2004d:14079**
Fernando, José F. Analytic surface germs with minimal Pythagoras number. (English summary) **2004e:32006**
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14Qxx Computational aspects in algebraic geometry [see also 12Y05, 13Pxx, 68W30]

14Q05 Curves

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14Q10 Surfaces, hypersurfaces

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14Q15 Higher-dimensional varieties

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14Q20 Effectivity

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14Q99 None of the above, but in this section

Busé, Laurent (*with* Cox, David A.; D'Andrea, Carlos) Implicitization of surfaces in $\mathbb{P}^3$ in the presence of base points. (English summary) **2004f:14092**
Cox, David A. *see* **Busé, Laurent et al., 2004f:14092**
D'Andrea, Carlos *see* **Busé, Laurent et al., 2004f:14092**
Emiris, Ioannis Z. Discrete geometry for algebraic elimination. (English summary) **2004k:14114**
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Galligo, André (*with* González-Vega, Laureano; Lombardi, Henri) Continuity properties for flat families of polynomials. I. Continuous parametrizations. (English summary) **2004f:14023**
González-Vega, Laureano *see* **Galligo, André et al., 2004f:14023**
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Lecerf, Grégoire Computing the equidimensional decomposition of an algebraic closed set by means of lifting fibers. (English summary) **2004j:68200**
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Qi, Liqun (*with* Teo, Kok Lay) Multivariate polynomial minimization and its application in signal processing. (English summary) **2004e:90131**
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Sommese, Andrew J. (*with* Verschelde, Jan; Wampler, Charles W.) Symmetric functions applied to decomposing solution sets of polynomial systems. (English summary) **2004m:65069**
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14Rxx Affine geometry

14R05 Classification of affine varieties

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Flenner, Hubert (*with* Zaidenberg, Mikhail) Normal affine surfaces with $\mathbb{C}^*$-actions. **2004k:14118**
Maubach, Stefan *see* **Crachiola, Anthony, 2004e:13040**
Zaidenberg, Mikhail *see* **Flenner, Hubert, 2004k:14118**

14R10 Affine spaces (automorphisms, embeddings, exotic structures, cancellation problem)

Artal Bartolo, Enrique (*with* Cassou-Noguès, Pierrette; Maugendre, Hélène) Quotients jacobiens d'applications polynomiales. (English and French summaries) [Jacobian quotients of polynomial maps] **2004g:14068**
Bisi, Cinzia On commuting polynomial automorphisms of $\mathbb{C}^2$. (English summary) **2004m:14128**
Bodnarchuk, Yurīĭ V. On affine-split tame invertible polynomial maps in three variables. (English summary) **2004k:14115**
— Generating properties of triangular and bitriangular birational automorphisms of an affine space. (Ukrainian. English summary) **2004k:14116**
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Cassou-Noguès, Pierrette *see* **Artal Bartolo, Enrique et al., 2004g:14068**
Edo, Eric Automorphismes modérés de l'espace affine. (English and French summaries) [Tame automorphisms of affine space] **2004c:14120**
van den Essen, Arno (*with* Peretz, Ronen) Polynomial automorphisms and invariants. **2004j:14068**
— Around the Abhyankar-Moh theorem. (English summary) **2004m:14129**
Freudenburg, Gene (*with* Moser-Jauslin, Lucy) Embeddings of Danielewski surfaces. (English summary) **2004k:14117**
Fujimoto, Mitsushi (*with* Suzuki, Masakazu) Construction of affine plane curves with one place at infinity. **2004c:14121**
Kaliman, Shulim Subrings invariant under endomorphisms. (English summary) **2004f:14093**
Kishimoto, Takashi Abhyankar-Sathaye embedding problem in dimension three. (English summary) **2004c:14122**
Lamy, Stéphane Polynomial automorphisms preserving a group action. (Spanish) **2004b:14102**
— Automorphismes polynomiaux préservant une action de groupe. (English and French summaries) [Polynomial automorphisms that preserve a group action] **2004c:14123**
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Moser-Jauslin, Lucy *see* **Freudenburg, Gene, 2004k:14117**

Peretz, Ronen *see* **van den Essen, Arno**, **2004j:14068**
Russell, Peter Multiple planes ramified over one-place curves. **2004m:14130**
Shestakov, Ivan P. *see* **Umirbaev, Ualbai U.**, **2004i:14068**
Suzuki, Masakazu *see* **Fujimoto, Mitsushi**, **2004c:14121**
Umirbaev, Ualbai U. (*with* Shestakov, Ivan P.) Subalgebras and automorphisms of polynomial rings. (Russian) **2004i:14068**
Wright, David L. (*with* Zhao, Wenhua) D-log and formal flow for analytic isomorphisms of n-space. (English summary) **2004b:14103**
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Geck, Meinolf ★ An introduction to algebraic geometry and algebraic groups. **2004m:20001**
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Mikhalëv, A. A. (*with* Shpilrain, Vladimir; Yu, Jie-Tai) ★ Combinatorial methods. **2004k:01001**
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Norbury, Paul *see* **Neumann, Walter D.**, **2004g:57014**
Ovsienko, Sergei A. Strongly nilpotent matrices and Gelfand-Zetlin modules. (English summary) **2004d:17018**
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van Rossum, Peter *see* **van den Essen, Arno**, **2004k:13034**
Shestakov, Ivan P. (*with* Umirbaev, Ualbai U.) The Nagata automorphism is wild. (English summary) **2004j:13036**
— (*with* Umirbaev, Ualbai U.) Poisson brackets and two-generated subalgebras of rings of polynomials. **2004k:13036**
— (*with* Umirbaev, Ualbai U.) The tame and the wild automorphisms of polynomial rings in three variables. **2004h:13022**
Shpilrain, Vladimir *see* **Mikhalëv, A. A. et al.**, **2004k:01001**
Umirbaev, Ualbai U. *see* **Shestakov, Ivan P.**, **2004h:13022**; **2004j:13036** *and* **2004k:13036**
Yu, Jie-Tai *see* **Mikhalëv, A. A. et al.**, **2004k:01001**

14R15 Jacobian problem

Abdesselam, Abdelmalek The Jacobian conjecture as a problem of perturbative quantum field theory. (English summary) **2004c:14124**
Bystrikov, A. S. Equivalence of elementary chains of blow-ups of the projective plane. (Russian. Russian summary) **2004m:14131**
Campbell, L. Andrew On a paper of J. Lang and S. Maslamani: "Some results on the Jacobian conjecture in higher dimension" [J. Pure Appl. Algebra **94** (1994), no. 3, 327–330]. (English summary) **2004m:14132**
van den Essen, Arno (*with* Washburn, Sherwood) The Jacobian conjecture for symmetric Jacobian matrices. (English summary) **2004m:14133**
— On the Jacobian conjecture. (Dutch)
Gutierrez, Carlos *see* **Nguyen Van Chau**, **2004m:14134**
Hamann, Eloise Algebraic observations on the Jacobian conjecture. (English summary) **2004d:14088**
(Lang, Jeffrey) *see* **Campbell, L. Andrew**, **2004m:14132**
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Masuda, Kayo *see* **Miyanishi, Masayoshi**, **2004a:14065**
Miyanishi, Masayoshi (*with* Masuda, Kayo) Generalized Jacobian conjecture and related topics. **2004a:14065**
Nguyen Van Chau (*with* Gutierrez, Carlos) Properness and the Jacobian conjecture in $\mathbb{R}^2$. (English summary) **2004m:14134**
Ossowski, Piotr A counterexample to a conjecture of Wright on homogeneous polynomial maps associated with rooted trees. (English summary) **2004e:14092**
Washburn, Sherwood *see* **van den Essen, Arno**, **2004m:14133**
Zhao, Wenhua Some reductions on Jacobian problem in two variables. (English summary) **2004m:14135**

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Artal Bartolo, Enrique (*with* Cassou-Noguès, Pierrette; Maugendre, Hélène) Quotients jacobiens d'applications polynomiales. (English and French summaries) [Jacobian quotients of polynomial maps] **2004g:14068**
Cassou-Noguès, Pierrette *see* **Artal Bartolo, Enrique et al.**, **2004g:14068**
Chamberland, Marc Characterizing two-dimensional maps whose Jacobians have constant eigenvalues. (English summary) **2004h:26014**
Maugendre, Hélène *see* **Artal Bartolo, Enrique et al.**, **2004g:14068**
Nguyen Van Chau A simple proof of Jung's theorem on polynomial automorphisms of $\mathbf{C}^2$. (English summary) **2004h:14068**
Popescu-Pampu, Patrick Approximate roots. (English summary) **2004k:14006**
Rabier, Patrick J. On the Malgrange condition for complex polynomials of two variables. (English summary) **2004a:32013**
Shestakov, Ivan P. (*with* Umirbaev, Ualbai U.) The tame and the wild automorphisms of polynomial rings in three variables. **2004h:13022**
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14R20 Group actions on affine varieties [see also 13A50, 14L30]

Ben Abdelghani, Leila Variété des caractères et slice étale de l'espace des représentations d'un groupe. (English and French summaries) [Character varieties and étale slice for the space of representations of a group] **2004h:14067**
Berchtold, Florian (*with* Hausen, Jürgen) Demushkin's theorem in codimension one. (English summary) **2004g:14069**
Bonnet, Philippe Relative exactness modulo a polynomial map and algebraic $(\mathbb{C}^p, +)$-actions. (English and French summaries) **2004j:14070**
Flenner, Hubert (*with* Zaidenberg, Mikhail) Normal affine surfaces with $\mathbb{C}^*$-actions. **2004k:14118**
Hausen, Jürgen *see* **Berchtold, Florian**, **2004g:14069**
Jelonek, Zbigniew The set of fixed points of an algebraic group. (English summary) **2004f:14094**
Nakajima, Haruhisa Equidimensional actions of algebraic tori on normal graded domains. **2004b:14104**
Nguyen Van Chau A simple proof of Jung's theorem on polynomial automorphisms of $\mathbf{C}^2$. (English summary) **2004h:14068**
Zaidenberg, Mikhail *see* **Flenner, Hubert**, **2004k:14118**

Items with secondary classifications in 14R20

Flenner, Hubert (*with* Zaidenberg, Mikhail) Rational curves and rational singularities. (English summary) **2004e:14061**
Kosakowska, Justyna Degenerations in a class of matrix varieties and prinjective modules. (English summary) **2004d:16027**
Lamy, Stéphane Polynomial automorphisms preserving a group action. (Spanish) **2004b:14102**
Masuda, Kayo (*with* Miyanishi, Masayoshi) The additive group actions on $\mathbb{Q}$-homology planes. (English and French summaries) **2004e:14073**
Masuda, Mikiya Equivariant algebraic vector bundles over representations—a survey. (English summary) **2004b:14084**
Miyanishi, Masayoshi *see* **Masuda, Kayo**, **2004e:14073**
Omar, M. Rafiq Alternating forms of higher degree. (English summary) **2004c:15052**
Panyushev, Dmitrii I. On covariants of reductive algebraic groups. **2004i:13006**
Zaidenberg, Mikhail *see* **Flenner, Hubert**, **2004e:14061**

14R25 Affine fibrations [see also 14D06]

Dutta, Amartya Kumar Some results on affine fibrations. (English summary) **2004h:14069**

Items with secondary classifications in 14R25

Bonnet, Philippe Relative exactness modulo a polynomial map and algebraic $(\mathbb{C}^p, +)$-actions. (English and French summaries) **2004j:14070**
Freudenburg, Gene (*with* Moser-Jauslin, Lucy) Embeddings of Danielewski surfaces. (English summary) **2004k:14117**
Kishimoto, Takashi Abhyankar-Sathaye embedding problem in dimension three. (English summary) **2004c:14122**
Moser-Jauslin, Lucy *see* **Freudenburg, Gene**, **2004k:14117**

14R99 None of the above, but in this section

Items with secondary classifications in 14R99

Chądzyński, Jacek (*with* Krasiński, Tadeusz) The gradient of a polynomial at infinity. (English summary) **2004j:32026**
Krasiński, Tadeusz *see* **Chądzyński, Jacek**, **2004j:32026**
Rodak, Tomasz The Łojasiewicz exponent of the gradient at infinity. (English summary) **2004e:32032**

15–XX Linear and multilinear algebra; matrix theory

15–01 Instructional exposition (textbooks, tutorial papers, etc.)

Akivis, Maks A. (*with* Goldberg, Vladislav V.) ★ Tensor calculus with applications.
Bröcker, Theodor ★ Lineare Algebra und analytische Geometrie. (German) [Linear algebra and analytical geometry]
Goldberg, Vladislav V. *see* **Akivis, Maks A.**
Hong, Sungpyo *see* **Kwak, Jin Ho**
Kaplansky, Irving ★ Linear algebra and geometry. **2004c:15001**
Kwak, Jin Ho (*with* Hong, Sungpyo) ★ Linear algebra.
Molnár, Sándor *see* **Szidarovszky, Ferenc**
Szidarovszky, Ferenc (*with* Molnár, Sándor) ★ Introduction to matrix theory.
Vasantha Kandasamy, W. B. ★ Linear algebra and Smarandache linear algebra.

Items with secondary classifications in 15–01

Danielson, D. A. ★ Vectors and tensors in engineering and physics. **2004b:15056**
(Retakh, Alexander) *see* **Vinberg, È. B., 2004h:00001**
Vinberg, È. B. ★ A course in algebra. **2004h:00001**

15–02 Research exposition (monographs, survey articles)

Wei, Mu Sheng ★ Supremum and stability of weighted pseudoinverses and weighted least squares problems. **2004k:15001**
Yang, Yi Xian ★ Theory and applications of higher-dimensional Hadamard matrices. **2004b:15001**

Items with secondary classifications in 15–02

Berman, Abraham (*with* Shaked-Monderer, Naomi) ★ Completely positive matrices. **2004k:15040**
Shaked-Monderer, Naomi *see* **Berman, Abraham, 2004k:15040**

15–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 15–03

(Alexander, Paul) *see* **Zeilberger, Doron, 2004g:00008**
Gutkin, Eugene The Toeplitz-Hausdorff theorem revisited: relating linear algebra and geometry. **2004k:47003**
Zeilberger, Doron Liebe Opa Paul, ich bin auch ein experimental Scientist! (English. English summary) **2004g:00008**

15–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 15–04

van de Geijn, Robert A. *see* **Quintana-Ortí, Enrique S., 2004g:15020**
Krammer, Bettina ★ Algorithmische lineare Algebra für Polynommatrizen. (German. English summary) [Algorithmic linear algebra for polynomial matrices] **2004k:68184**
Quintana-Ortí, Enrique S. (*with* van de Geijn, Robert A.) Formal derivation of algorithms: the triangular Sylvester equation. (English summary) **2004g:15020**
Stanimirović, Predrag S. A finite algorithm for generalized inverses of polynomial and rational matrices. (English summary) **2004f:15011**
Thomé, Emmanuel Subquadratic computation of vector generating polynomials and improvement of the block Wiedemann algorithm. (English summary) **2004b:11172**

15–06 Proceedings, conferences, collections, etc.

(Bapat, R. B.) *see* **Conference: International Linear Algebra Society, 10th**
(Bini, Dario A.) *see* **Special Issue: Structured matrices: analysis, algorithms and applications**
(Heinig, Georg) *see* **Special Issue: Structured matrices: analysis, algorithms and applications**
(Kaashoek, Marinus A.) *see* **Conference: International Linear Algebra Society, 10th**
(Mathias, Roy) *see* **Conference: International Linear Algebra Society, 10th**
(Tam, Tin-Yau) *see* **Conference: International Linear Algebra Society, 10th**
(Tyrtyshnikov, E. E.) *see* **Special Issue: Structured matrices: analysis, algorithms and applications**
(Uhlig, Frank) *see* **Conference: International Linear Algebra Society, 10th**

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Auburn, AL ★ Tenth Conference of the International Linear Algebra Society.
Conference:
  International Linear Algebra Society, 10th ★ Tenth Conference of the International Linear Algebra Society.
Cortona ★ Special issue on structured matrices: analysis, algorithms and applications.
Special Issue:
  Structured matrices: analysis, algorithms and applications ★ Special issue on structured matrices: analysis, algorithms and applications.

Items with secondary classifications in 15–06

(Abłamowicz, Rafał) *see* **Clifford algebras, 2004i:00012**
Bart, Harm (*with* Koltracht, Israel; Markus, Alexander S.; Rodman, Leiba) Preface [Special issue in honor of Peter Lancaster].
(Hwang, Suk-Geun) *see* **Conference: Combinatorial Matrix Theory**
Koltracht, Israel *see* **Bart, Harm et al.**
(Kräuter, Arnold R.) *see* **Conference: Combinatorial Matrix Theory**
(Lancaster, Peter) *see* **Bart, Harm et al.**
Markus, Alexander S. *see* **Bart, Harm et al.**
Rodman, Leiba *see* **Bart, Harm et al.**
(Shader, Bryan L.) *see* **Conference: Combinatorial Matrix Theory**
(Shao, Jia-Yu) *see* **Conference: Combinatorial Matrix Theory**

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  Lancaster, Peter *see* **Bart, Harm et al.**
Clifford algebras ★ Clifford algebras. **2004i:00012**
Conference:
  Clifford Algebras and their Applications in Mathematical Physics ★ Clifford algebras. **2004i:00012**
  Combinatorial Matrix Theory ★ Special issue on the Combinatorial Matrix Theory Conference.
Cookeville, TN ★ Clifford algebras. **2004i:00012**
Pohang ★ Special issue on the Combinatorial Matrix Theory Conference.

15A03 Vector spaces, linear dependence, rank

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15A06 Linear equations

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15A75 Exterior algebra, Grassmann algebras

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15A99 Miscellaneous topics

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16–XX Associative rings and algebras {For the commutative case, see 13–XX.}

16–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 16–00

(Mikhalëv, A. V.) *see* **Handbook: Algebra, 2004c:00001**
(Pilz, Günter F.) *see* **Handbook: Algebra, 2004c:00001**

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Handbook:
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16–01 Instructional exposition (textbooks, tutorial papers, etc.)

Lam, T. Y. ★ Exercises in classical ring theory. **2004g:16001**

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Classical ring theory *see* **Lam, T. Y., 2004g:16001**

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(Retakh, Alexander) *see* **Vinberg, È. B., 2004h:00001**
Robinson, Derek John Scott ★ An introduction to abstract algebra. **2004b:00001**
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16–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 16–02

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16–03 Historical (must also be assigned at least one classification number from Section 01)

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16–04 Explicit machine computation and programs (not the theory of computation or programming)

Kasapenko, L. Yu. Some algorithmic problems of associative algebras. (Russian) **2004a:16001**
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16–06 Proceedings, conferences, collections, etc.

(Bakhturin, Yu. A.) *see* **Groups, rings, Lie and Hopf algebras, 2004c:16001**
(Bergen, Jeffrey) *see* **Hopf algebras, 2004j:16002**
(Catoiu, Stefan) *see* **Hopf algebras, 2004j:16002**
(Chin, William) *see* **Hopf algebras, 2004j:16002**
(Facchini, Alberto) *see* **Rings, modules, algebras, and abelian groups, 2004k:16001**
(Fong, Yuen) *see* **Proceedings: Algebra Conference, 2004g:16002**
(Giambruno, Antonino) *see* **Polynomial identities and combinatorial methods, 2004f:16001**
(Houston, Evan) *see* **Rings, modules, algebras, and abelian groups, 2004k:16001**
(Redondo, María Julia) *see* **Homology theories, representations and Hopf algebras**
(Regev, Amitai) *see* **Polynomial identities and combinatorial methods, 2004f:16001**
(Salce, Luigi) *see* **Rings, modules, algebras, and abelian groups, 2004k:16001**
(Shiao, Long-Sheng) *see* **Proceedings: Algebra Conference, 2004g:16002**
(Solotar, Andrea) *see* **Homology theories, representations and Hopf algebras**
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Chicago, IL ★ Hopf algebras. **2004j:16002**
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Algebra and their Related Topics ★ Proceedings of the Third International Algebra Conference. **2004g:16002**
Groups, rings, Lie and Hopf algebras ★ Groups, rings, Lie and Hopf algebras. **2004c:16001**
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Rings, modules, algebras, and abelian groups ★ Rings, modules, algebras, and abelian groups. **2004k:16001**
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Théories d'homologie, représentations et algèbres de Hopf ★ Théories d'homologie, représentations et algèbres de Hopf. [Homology theories, representations and Hopf algebras]
Venezia ★ Rings, modules, algebras, and abelian groups. **2004k:16001**

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(Arnold, David M.) *see* **Proceedings: Conference on Abelian Groups and Modules**
(Benslimane, Mohamed) *see* **Proceedings: Conference on Algebras and their Applications, 2004i:00013**
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Dinh, Hai Quang (*with* Dinh Van Huynh) A decomposition theorem for $\wp^*$-semisimple rings. (English summary) **2004j:16005**
Dinh Van Huynh *see* **Dinh, Hai Quang**, **2004j:16005**
Er, Noyan When submodules isomorphic to complements are complements. (English summary) **2004e:16007**
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Gupta, Ram Niwas (*with* Khurana, Dinesh) Endomorphism rings of finite length injective modules. (English summary) **2004e:16031**
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Iosif, Mihai Left maximal ideals of the endomorphism ring of a self-injective module. (English summary)
Khurana, Dinesh *see* **Gupta, Ram Niwas**, **2004e:16031**
Lee, Heakyung (*with* Vachuska, Peter L.) On disjoint sets of natural classes. (English summary) **2004c:16003**
Parmenter, Michael (*with* Zhou, Yiqiang) Finitely Σ-CS property of excellent extensions of rings. (English summary) **2004a:16041**
Plubtieng, Somyot A generalization of continuous modules and their application to QF-rings. (English summary) **2004b:16019**
Skowroński, Andrzej (*with* Yamagata, Kunio) On selfinjective Artin algebras having nonperiodic generalized standard Auslander-Reiten components. (English summary) **2004k:16030**
— *see also* **Białkowski, Jerzy et al.**, **2004a:16019**; **2004j:16020** *and* **2004k:16039**
Tărnăuceanu, Marius A property of the functors Tor and Ext. **2004a:16012**
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Vachuska, Peter L. *see* **Lee, Heakyung**, **2004c:16003**
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Zaman, Naveed Minimal generators and injective modules. (English summary) **2004k:16016**
Zhou, Yiqiang *see* **Parmenter, Michael**, **2004a:16041**

16D60 Simple and semisimple modules, primitive rings and ideals

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Alaoui, M. *see* **Haily, A.**, (**2004i:00013**)
Bavula, V. (*with* van Oystaeyen, Fred) Simple modules of the Witten-Woronowicz algebra. (English summary) **2004k:16067**
Haily, A. (*with* Alaoui, M.) Anneaux parfaits pour lesquels la réciproque du lemme de Schur est vérifiée. (English summary) [Perfect rings for which the converse of the Schur lemma holds] (*see* **2004i:00013**)
Karabacak, Fatih (*with* Tercan, Adnan) Generalizations of extending modules in the category $\sigma[M]$. (English summary) **2004m:16001**
van Oystaeyen, Fred *see* **Bavula, V.**, **2004k:16067**
Özcan, A. Çiğdem On GCO-modules and M-small modules. (English summary) **2004d:16010**
Tercan, Adnan *see* **Karabacak, Fatih**, **2004m:16001**

16D70 Structure and classification (except as in 16Gxx), direct sum decomposition, cancellation

Chen, Huan Yin Partial cancellation of modules. (English summary) **2004f:16007**
Dhompongsa, Sompong (*with* Tansee, Hansuk) The exchange property of modules with the finite exchange property. (English summary) **2004b:16004**
Er, Noyan When submodules isomorphic to complements are complements. (English summary) **2004e:16007**
Gómez Pardo, José L. (*with* Guil Asensio, Pedro A.) Indecomposable decompositions of modules whose direct sums are CS. **2004b:16005**
Guil Asensio, Pedro A. *see* **Gómez Pardo, José L.**, **2004b:16005**
Hirano, Yasuyuki On rings whose modules of finite length are all cyclic. (English summary)
Idelhadj, A. (*with* Tribak, R.) On some properties of $\oplus$-supplemented modules. (English summary) **2004k:16007**
Kamal, Mahmoud Ahmad On-CS-modules over Goldie rings. (English summary) **2004a:16003**
Li, Qi Sheng[1] (*with* Zhu, Jia Gui; Tong, Wen Ting) On related power comparability of modules. (English summary) **2004i:16011**
Lu, Dan-cheng (*with* Wu, Jun[4]; Tong, Wen Ting) The n-th root property and root rings. (English and Chinese summaries)
Plubtieng, Somyot Rings with many direct summands. (English summary) **2004b:16006**
Smith, Patrick F. (*with* Tercan, Adnan) Direct summands of modules which satisfy (C_{11}). (English summary) **2004m:16007**
Tansee, Hansuk *see* **Dhompongsa, Sompong**, **2004b:16004**
Tercan, Adnan *see* **Smith, Patrick F.**, **2004m:16007**
Tong, Wen Ting *see* **Li, Qi Sheng[1] et al.**, **2004i:16011** *and* **Lu, Dan-cheng et al.**
Tribak, R. *see* **Idelhadj, A.**, **2004k:16007**
Vălcan, Dumitru Again on the direct sums of modules with the direct summand intersection property. (English summary) **2004c:16007**
— Modules with the direct summand sum property. (English summary) **2004e:16008**
Wu, Jun[4] *see* **Lu, Dan-cheng et al.**
Zhu, Jia Gui *see* **Li, Qi Sheng[1] et al.**, **2004i:16011**

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Ara, Pere (*with* O'Meara, K. C.; Perera, F.) Gromov translation algebras over discrete trees are exchange rings. (English summary) **2004k:16019**
Atani, Shahabaddin Ebrahimi Multiplication modules over pullback rings. (English summary) **2004h:13014**
Birkenmeier, Gary F. (*with* Park, Jae Keol; Rizvi, S. Tariq) Generalized triangular matrix rings and the fully invariant extending property. (English summary) **2004f:16046**
— (*with* Park, Jae Keol) Triangular matrix representations of ring extensions. (English summary) **2004f:16047**
Chen, Huan Yin Quasi-separative modules with finite exchange property. (English summary) **2004h:16008**
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Dinh Van Huynh *see* **Dinh, Hai Quang**, **2004j:16005**
Er, Noyan Rings whose CS modules are countably Σ-CS. (English summary) **2004i:16009**
Fall, Amadou Lamine (*with* Sanghare, Mamadou) On I-duo rings. (*see* **2004c:11004**)
Goeters, H. Patrick (*with* Olberding, Bruce) The Krull-Schmidt property for ideals and modules over integral domains. (English summary) **2004c:13008**
Hahn, Alexander The Clifford algebra in the theory of algebras, quadratic forms, and classical groups. (English summary) **2004m:11057**
Idelhadj, A. (*with* Tribak, R.) On injective $\oplus$-supplemented modules. (English summary) (*see* **2004i:00013**)
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— (*with* Tercan, Adnan) Matrix rings with summand intersection property. (English summary) **2004f:16048**
Krause, Henning Uniqueness of uniform decompositions in abelian categories. (English summary) **2004e:18016**
Li, Qi Sheng[1] (*with* Tong, Wen Ting) A remark on aleph-nought-comparability over exchange rings. (English and Chinese summaries) **2004e:16013**
Okoh, Frank (*with* Zorzitto, F. A.) Curves arising from Kronecker modules. (English summary) **2004e:16032**
Olberding, Bruce *see* **Goeters, H. Patrick**, **2004c:13008**
O'Meara, K. C. The exchange property for row and column-finite matrix rings. (English summary) **2004i:16040**
— *see also* **Ara, Pere et al.**, **2004k:16019**
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Rizvi, S. Tariq *see* **Birkenmeier, Gary F. et al.**, **2004f:16046**
Sanghare, Mamadou *see* **Fall, Amadou Lamine**, (**2004c:11004**)
Simson, Daniel On local right pure semisimple rings of length two or three. **2004a:16025**
Tercan, Adnan *see* **Karabacak, Fatih**, **2004f:16048** *and* **2004m:16001**
Tong, Wen Ting *see* **Li, Qi Sheng[1]**, **2004e:16013**
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Tuganbaev, Askar A. ★ Rings close to regular. **2004d:16018**
— Semiregular, weakly regular, and π-regular rings. **2004m:16013**
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16D80 Other classes of modules and ideals [see also 16G50]

Alizade, Rafail (*with* Büyükaşık, Engin) Cofinitely weak supplemented modules. (English summary) **2004h:16002**
Büyükaşık, Engin *see* **Alizade, Rafail**, **2004h:16002**
Crivei, Iuliu On a class of modules having no maximal submodule. (English summary)
Crivei, Septimiu On a generalization of the Loewy series of a module. (English summary) **2004e:16009**
El-menshawy, Amany *see* **Kamal, Mahmoud Ahmad**
Fortes Escalona, Miguel Ángel (*with* de las Peñas Cabrera, Inmaculada; Sánchez Campos, Esperanza) Unital associative pairs. (English summary)
Kamal, Mahmoud Ahmad (*with* El-menshawy, Amany) CS-modules and annihilator conditions. (English summary)
Kaučikas, Algirdas On left strongly prime modules, ideals, and radicals. (English summary) **2004a:16004**
Liu, Min[3] (*with* Wang, Ming Yi; Zuo, Ping) Co-$*$-modules and cotilting modules over π-coherent rings. (Chinese. English and Chinese summaries) **2004k:16008**
Nebiyev, C. (*with* Pancar, A.) On amply supplemented modules. (English summary)
O'Neill, John D. Extension of a theorem on direct products of slender modules. (English summary) **2004d:16012**
Pancar, A. *see* **Nebiyev, C.**
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Tuganbaev, Askar A. Distributive rings, uniserial rings of fractions, and endo-Bezout modules. **2004c:16008**
Wang, Ming Yi *see* **Liu, Min[3] et al.**, **2004k:16008**
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Bican, Ladislav Precovers and Goldie's torsion theory. (English summary) **2004k:16085**
Ghorbani, Atefeh (*with* Haghany, A.) Duality for weakly co-Hopfian and generalized Hopfian modules. (English summary) **2004d:16004**
Haghany, A. *see* **Ghorbani, Atefeh**, **2004d:16004**

16D90 Module categories [see also 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality

Bican, Ladislav (*with* Torrecillas Jover, Blas) Precovers. (English summary) **2004a:16005**

Breaz, Simion (*with* Modoi, Ciprian) Colimits in the category of A-solvable modules. **2004c:16009**
Chen, Yu Qun (*with* Hao, Zhi Feng; Fan, Yun) Morita equivalence of semigroup rings. (English summary)
Colby, Robert R. (*with* Fuller, Kent R.) Weak Morita duality. (English summary) **2004b:16007**
— (*with* Colpi, Riccardo; Fuller, Kent R.) A note on cotilting modules and generalized Morita duality. (*see* **2004k:16001**)
Colpi, Riccardo *see* **Colby, Robert R. et al.**, (**2004k:16001**)
Fan, Yun *see* **Chen, Yu Qun et al.**
Fuller, Kent R. *see* **Colby, Robert R. et al.**, **2004b:16007** *and* (**2004k:16001**)
Hao, Zhi Feng *see* **Chen, Yu Qun et al.**
Kashu, A. I. On equivalence of some subcategories of modules in Morita contexts. (English summary)
Koike, Kazutoshi Almost self-duality and Harada rings. (English summary) **2004a:16006**
Liu, San Yang *see* **Zhang, Sheng Gui**[1]
Mikishanov, A. L. Inducing a lattice isomorphism by a category equivalence. (Russian)
Modoi, Ciprian *see* **Breaz, Simion**, **2004c:16009**
Ouyang, Bai Yu (*with* Tong, Wen Ting) Morita context and Morita-like equivalence for the xst-rings. (English summary) **2004g:16006**
— (*with* Tong, Wen Ting) XST-rings and Morita-like equivalence. (Chinese. English and Chinese summaries) **2004a:16007**
Özcan, A. Çiğdem (*with* Smith, Patrick F.) The Z^* functor for rings whose primitive images are Artinian. (English summary) **2004a:16008**
Rouquier, Raphaël (*with* Zimmermann, Alexander) Picard groups for derived module categories. **2004h:16003**
Smith, Patrick F. *see* **Özcan, A. Çiğdem**, **2004a:16008**
Tong, Wen Ting *see* **Ouyang, Bai Yu**, **2004a:16007** *and* **2004g:16006**
Torrecillas Jover, Blas *see* **Bican, Ladislav**, **2004a:16005**
Zhang, Sheng Gui[1] (*with* Liu, San Yang) Smash products and quasi-duality. (English summary)
Zimmermann, Alexander *see* **Rouquier, Raphaël**, **2004h:16003**

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Alonso Tarrío, Leovigildo (*with* Jeremías López, Ana; Souto Salorio, María José) Construction of t-structures and equivalences of derived categories. (English summary) **2004c:18020**
Angerleri-Hügel, Lidia Endocoherent modules. (English summary) **2004g:16003**
Beligiannis, Apostolos On the Freyd categories of an additive category. **2004k:18006**
Castaño Iglesias, Florencio (*with* Gómez-Torrecillas, José; Wisbauer, Robert) Adjoint functors and equivalence of subcategories. (English and French summaries) **2004f:16063**
Dauns, John Natural classes and torsion theories. (English summary) **2004c:16051**
Gómez-Torrecillas, José *see* **Castaño Iglesias, Florencio et al.**, **2004f:16063**
Gorbachuk, O. L. (*with* Maturin, Yu. P.) Rings and properties of lattices of I-radicals. (English summary) **2004a:16046**
Gregorio, Enrico Topological tilting modules. II. (English summary) **2004b:16064**
Jeremías López, Ana *see* **Alonso Tarrío, Leovigildo et al.**, **2004c:18020**
Jurčo, Branislav (*with* Schupp, Peter[1]; Wess, Julius) Noncommutative line bundle and Morita equivalence. (English summary) **2004a:53115**
Keller, Bernhard Hochschild cohomology and derived Picard groups. (English summary) **2004m:16012**
Krause, Henning (*with* Solberg, Øyvind) Applications of cotorsion pairs. (English summary) **2004k:16028**
Krylov, P. A. (*with* Mikhalëv, A. V.; Tuganbaev, Askar A.) ★ Endomorphism rings of abelian groups. **2004j:20109**
Li, Qi Sheng[1] (*with* Tong, Wen Ting) Separativity and stable range for formal triangular matrix rings. (English summary)
Liu, Zhong Kui Morita duality for the rings of generalized power series. (English summary) **2004d:16077**
Marcus, Andrei (*with* Modoi, Ciprian) Graded endomorphism rings and equivalences. (English summary) **2004f:16075**
Maturin, Yu. P. *see* **Gorbachuk, O. L.**, **2004a:16046**
Mikhalëv, A. V. *see* **Krylov, P. A. et al.**, **2004j:20109**
Modoi, Ciprian *see* **Marcus, Andrei**, **2004f:16075**
Ostrik, Viktor Module categories over the Drinfeld double of a finite group. **2004h:18005**
— Module categories, weak Hopf algebras and modular invariants. (English summary) **2004h:18006**
Prest, Mike (*with* Schröer, Jan) Serial functors, Jacobson radical and representation type. (English summary) **2004a:16022**
Schröer, Jan *see* **Prest, Mike**, **2004a:16022**
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Solberg, Øyvind *see* **Krause, Henning**, **2004k:16028**
Souto Salorio, María José *see* **Alonso Tarrío, Leovigildo et al.**, **2004c:18020**
Szlachányi, Kornél The monoidal Eilenberg-Moore construction and bialgebroids. (English summary) **2004g:18006**
Tong, Wen Ting *see* **Li, Qi Sheng**[1]
Trlifaj, Jan Ext and inverse limits. (English summary) **2004k:16015**
Tuganbaev, Askar A. *see* **Krylov, P. A. et al.**, **2004j:20109**
Wang, Shiqing Relative almost excellent extensions of relative n-coherent rings. (English and Chinese summaries) **2004f:16053**
Wess, Julius *see* **Jurčo, Branislav et al.**, **2004a:53115**
Wisbauer, Robert *see* **Castaño Iglesias, Florencio et al.**, **2004f:16063**
Zheng, Nai Feng Module coalgebras and Morita-Takeuchi contexts. (Chinese. English and Chinese summaries)

16D99 None of the above, but in this section

Murthy, Nistala V. E. S. (*with* Yogeswara, Vaddiparthy) Modulets. (English summary)
Pan, FuZheng Homological algebraic structure of fuzzy modules. (English summary) **2004h:16004**
Yogeswara, Vaddiparthy *see* **Murthy, Nistala V. E. S.**

Items with secondary classifications in 16D99

Sugano, Kozo On H-separable extensions of QF-3 rings. (English summary) **2004f:16026**

16Exx Homological methods {For commutative rings, see 13Dxx; for general categories, see 18Gxx.}

16E05 Syzygies, resolutions, complexes

Chan, Daniel Sai-Ping (*with* Wu, Quan Shui; Zhang, James J.) Pre-balanced dualizing complexes. (English summary) **2004k:16009**
Eisenbud, David Periodic resolutions over exterior algebras. (English summary) **2004a:16009**
Green, Edward L.[1] (*with* Marcos, Eduardo do Nascimento; Zhang, Pu[1]) Koszul modules and modules with linear presentations. (English summary) **2004j:16009**
Grillo, Sergio Daniel Twisting of homogeneous algebras. (English summary) **2004m:16008**
Huang, Zhaoyong Extension closure of relative syzygy modules. (English summary) **2004k:16010**
Marcos, Eduardo do Nascimento *see* **Green, Edward L.**[1] **et al.**, **2004j:16009**
Martínez-Villa, Roberto (*with* Zacharia, Dan) Approximations with modules having linear resolutions. (English summary) **2004h:16005**
Miyachi, Jun-Ichi Recollement and tilting complexes. (English summary) **2004g:16007**
Shi, Hong Bo Finitistic dimension of monomial algebras. (English summary) **2004f:16008**
Simson, Daniel Pure-periodic modules and a structure of pure-projective resolutions. (English summary) **2004d:16013**
Wu, Quan Shui *see* **Chan, Daniel Sai-Ping et al.**, **2004k:16009**
Yekutieli, Amnon (*with* Zhang, James J.) Residue complexes over noncommutative rings. (English summary) **2004a:16010**
Zacharia, Dan *see* **Martínez-Villa, Roberto**, **2004h:16005**
Zhang, James J. *see* **Yekutieli, Amnon**, **2004a:16010** *and* **Chan, Daniel Sai-Ping et al.**, **2004k:16009**
Zhang, Pu[1] *see* **Green, Edward L.**[1] **et al.**, **2004j:16009**

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Backelin, Jörgen (*with* Cojocaru, Svetlana; Ufnarovskiĭ, V. A.) The computer algebra package Bergman: current state. (English summary) **2004m:16063**
Berger, Roland (*with* Dubois-Violette, Michel; Wambst, Marc) Homogeneous algebras. (English summary) **2004d:16052**
Bichon, Julien N-complexes et algèbres de Hopf. (English and French summaries) [N-complexes and Hopf algebras] **2004g:16036**
Burban, Igor (*with* Drozd, Yu. A.) Derived categories of nodal algebras. (English summary) **2004m:16015**
Cojocaru, Svetlana *see* **Backelin, Jörgen et al.**, **2004m:16063**
Drozd, Yu. A. *see* **Burban, Igor**, **2004m:16015**
Dubois-Violette, Michel *see* **Berger, Roland et al.**, **2004d:16052**
El Kaoutit, L. (*with* Gómez-Torrecillas, José) Sur une classe d'extensions de Ore itérées. (French summary) [On a class of iterated Ore extensions] **2004m:16038**
Fëdorova, N. Yu. *see* **Generalov, A. I.**, **2004b:16010**
Generalov, A. I. (*with* Fëdorova, N. Yu.) The Yoneda algebra for the "Liu-Schulz example". (Russian. Russian summary) **2004b:16010**
— Cohomology of algebras of semidihedral type. III. The series $SD(3K)$. (Russian. English and Russian summaries) **2004m:16016**
— (*with* Kosmatov, Nikolai) Computation of the Yoneda algebras for algebras of dihedral type. (Russian summary) **2004j:16010**
Gómez-Torrecillas, José *see* **El Kaoutit, L.**, **2004m:16038**
Green, Edward L.[1] (*with* Reiten, Idun; Solberg, Øyvind) Dualities on generalized Koszul algebras. (English summary) **2004b:16042**
Harlander, Jens *see* **Kochloukova, Dessislava H.**, **2004k:20107**
Holm, Henrik Gorenstein homological dimensions. (English summary) **2004k:16013**
Hoshino, Mitsuo (*with* Kato, Yoshiaki) Tilting complexes associated with a sequence of idempotents. (English summary) **2004f:16017**
Kato, Yoshiaki *see* **Hoshino, Mitsuo**, **2004f:16017**
Kochloukova, Dessislava H. (*with* Harlander, Jens) Building resolutions. (English summary) **2004k:20107**
Kosmatov, Nikolai *see* **Generalov, A. I.**, **2004j:16010**
Liu, Zhong Kui Left $(\aleph, U)$-coherent dimensions and excellent extensions of rings. (English summary)
Masuoka, Akira Cohomology and coquasi-bialgebra extensions associated to a matched pair of bialgebras. (English summary) **2004f:16071**
Noriega, Teresita J. (*with* Ortega Blanco, Oscar) Global dimension of the double extension algebra of a finite poset. (Spanish. English and Spanish summaries) **2004m:16022**
Ortega Blanco, Oscar *see* **Noriega, Teresita J.**, **2004m:16022**
Reiten, Idun *see* **Green, Edward L.**[1] **et al.**, **2004b:16042**
Solberg, Øyvind *see* **Green, Edward L.**[1] **et al.**, **2004b:16042**
Ufnarovskiĭ, V. A. *see* **Backelin, Jörgen et al.**, **2004m:16063**
Wambst, Marc *see* **Berger, Roland et al.**, **2004d:16052**
Ye, Yu (*with* Zhang, Pu[1]) Higher Koszul complexes. (English summary) **2004f:16016**
Zhang, Pu[1] *see* **Ye, Yu**, **2004f:16016**

16E10 Homological dimension

Ágoston, István (*with* Dlab, Vlastimil; Lukács, Erzsébet) Quasi-hereditary extension algebras. (English summary) **2004c:16010**
Asensio, M. J. (*with* López Ramos, J. A.; Torrecillas Jover, Blas; van Oystaeyen, Fred) Injective dimension of filtered and graded rings. (English summary) **2004k:16011**
Cheng, Fu Chang *see* **Li, Zhen Zhu**, **2004a:16011**
Dlab, Vlastimil *see* **Ágoston, István et al.**, **2004c:16010**

Du, Xian Neng *see* **Ge, Maorong**, **2004k:16012**
Gago-Vargas, Jesús Bases for projective modules in $A_n(k)$. (English summary) **2004i:16012**
Ge, Maorong (*with* Du, Xian Neng) A note on the finitistic dimension of dual extension algebras. (English and Chinese summaries) **2004k:16012**
Holm, Henrik Gorenstein homological dimensions. (English summary) **2004k:16013**
Huang, Zhaoyong Selforthogonal modules with finite injective dimension. II. (English summary) **2004e:16010**
Kosmatov, Nikolai On the homological dimensions of pullbacks. II. (*see* **2004a:11001**)
Krause, Henning (*with* Solberg, Øyvind) Filtering modules of finite projective dimension. (English summary) **2004b:16008**
Li, Zhen Zhu (*with* Cheng, Fu Chang) Homological properties of semi-perfect rings. (Chinese. English and Chinese summaries) **2004a:16011**
Liu, Zhong Kui On left $(\aleph, U)$-coherent dimensions of rings. (English and Chinese summaries)
— Left $(\aleph, U)$-coherent dimensions and excellent extensions of rings. (English summary)
López Ramos, J. A. *see* **Asensio, M. J. et al.**, **2004k:16011**
Lukács, Erzsébet *see* **Ágoston, István et al.**, **2004c:16010**
Madsen, Dag Projective dimensions and almost split sequences. (English summary) **2004i:16013**
van Oystaeyen, Fred *see* **Asensio, M. J. et al.**, **2004k:16011**
Solberg, Øyvind *see* **Krause, Henning**, **2004b:16008**
Tan, Zhi Song *see* **Zhan, Jian Ming**, **2004f:16009**
Torrecillas Jover, Blas *see* **Asensio, M. J. et al.**, **2004k:16011**
Tuganbaev, Askar A. Rings of weak global dimension one and distributively generated rings. (Russian)
Zhan, Jian Ming (*with* Tan, Zhi Song) Finitely cogenerated dimension of modules. (English and Chinese summaries) **2004f:16009**

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Assem, Ibrahim (*with* Coelho, Flávio Ulhoa) Two-sided gluings of tilted algebras. (English summary) **2004k:16026**
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16E20 Grothendieck groups, K-theory, etc. [see also 18F30, 19Axx, 19D50]

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16E30 Homological functors on modules (Tor, Ext, etc.)

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16E40 (Co)homology of rings and algebras (e.g. Hochschild, cyclic, dihedral, etc.)

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16E45 Differential graded algebras and applications

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16E50 von Neumann regular rings and generalizations

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— On m-fold stable rings. (English and Chinese summaries) **2004g:16008**
— Quasi-separative modules with finite exchange property. (English summary) **2004h:16008**
— Separativity of endomorphism rings of modules with finite exchange property. (Chinese. English and Chinese summaries) **2004i:16018**
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— (*with* Chen, Miaosen) On unit-regular ideals. (English summary) **2004i:16017**
— (*with* Chen, Miaosen) On semiregular rings. (English summary) **2004d:16017**
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— On strongly stable rings. (English summary) **2004d:19003**

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16E60 Semihereditary and hereditary rings, free ideal rings, Sylvester rings, etc.

Items with secondary classifications in 16E60

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Tuganbaev, Askar A. ★ Rings close to regular. **2004d:16018**

16E65 Homological conditions on rings (generalizations of regular, Gorenstein, Cohen-Macaulay rings, etc.)

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16Gxx Representation theory of rings and algebras

16G10 Representations of Artinian rings

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16G30 Representations of orders, lattices, algebras over commutative rings [see also 16H05]

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16G50 Cohen-Macaulay modules

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16G60 Representation type (finite, tame, wild, etc.)

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Brüstle, Thomas On positive roots of pg-critical algebras. (English summary) **2004g:16017**
— (*with* Sergeichuk, Vladimir V.) Estimate of the number of one-parameter families of modules over a tame algebra. (English summary) **2004g:16018**
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Dräxler, Peter Tame biextensions of derived tame hereditary algebras. (English summary) **2004d:16032**
Drozd, Yu. A. On cubic functors. (English summary) **2004a:16031**
Futornyĭ, V. M. *see* **Bekkert, Viktor**, **2004c:16022**
Holm, Thorsten *see* **Białkowski, Jerzy et al.**, **2004j:16020**
Kasjan, Stanisław Representation-finite triangular algebras form an open scheme. (English summary) **2004j:16021**
de la Peña, José A. *see* **Castonguay, Diane**, **2004c:16023**
Sergeichuk, Vladimir V. *see* **Brüstle, Thomas**, **2004g:16018**
Skowroński, Andrzej *see* **Białkowski, Jerzy et al.**, **2004j:16020** *and* **2004k:16039**

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Asashiba, Hideto On a lift of an individual stable equivalence to a standard derived equivalence for representation-finite self-injective algebras. (English summary) **2004j:16015**
Barannik, L. F. (*with* Sobolewska, Kamila) On indecomposable projective representations of finite groups over fields of characteristic $p > 0$. (English summary) **2004k:20030**
Bautista, Raymundo (*with* Boza Cordero, Juan; Pérez, Efrén) Reduction functors and exact structures for bocses. (English summary) **2004f:16012**
Bekkert, Viktor (*with* Merklen, Héctor A.) Indecomposables in derived categories of gentle algebras. (English summary) **2004g:16009**
Belitskiĭ, G. R. (*with* Sergeichuk, Vladimir V.) Complexity of matrix problems. (English summary) **2004b:16014**
Białkowski, Jerzy (*with* Skowroński, Andrzej) Selfinjective algebras of tubular type. (English summary) **2004a:16019**
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— (*with* Dräxler, Peter; Skowroński, Andrzej) Domestic algebras with many nonperiodic Auslander-Reiten components. (English summary) **2004d:16033**
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Buan, Aslak Bakke (*with* Krause, Henning) Cotilting modules over tame hereditary algebras. (English summary) **2004k:16027**
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Coelho, Flávio Ulhoa On the infinite radical of a module category over a tilted algebra. (English and Portuguese summaries) **2004h:16010**
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Farnsteiner, Rolf (*with* Voigt, Detlef) On infinitesimal groups of tame representation type. **2004c:16063**
Green, Edward L.[1] (*with* Snashall, Nicole; Solberg, Øyvind) The Hochschild cohomology ring of a selfinjective algebra of finite representation type. (English summary) **2004c:16013**
Kerner, Otto Endomorphism rings of regular modules over wild hereditary algebras. (English summary) **2004k:16034**
Krause, Henning *see* **Buan, Aslak Bakke**, **2004k:16027**
Leszczyński, Zbigniew The completely separating incidence algebras of tame representation type. (English summary) **2004a:16027**
Lévesque, Jessica Tilted algebras of type $\widetilde{\mathbb{A}}_n$. (English summary) **2004f:16018**
Liu, Shi Ping[1] *see* **Buchweitz, Ragnar-Olaf**, **2004m:16010**

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Rump, Wolfgang Categories of lattices, and their global structure in terms of almost split sequences. (English summary) **2004m:16023**
Sergeichuk, Vladimir V. *see* **Belitskiĭ, G. R., 2004b:16014**
Simson, Daniel On local right pure semisimple rings of length two or three. **2004a:16025**
Skowroński, Andrzej *see* **Białkowski, Jerzy, 2004a:16019; Bobiński, Grzegorz et al., 2004d:16033** *and* **2004m:16024**
Snashall, Nicole *see* **Green, Edward L.[1] et al., 2004c:16013**
Sobolewska, Kamila *see* **Barannik, L. F., 2004k:20030**
Solberg, Øyvind *see* **Green, Edward L.[1] et al., 2004c:16013**
Voigt, Detlef *see* **Farnsteiner, Rolf, 2004c:16063**

16G70 Auslander-Reiten sequences (almost split sequences) and Auslander-Reiten quivers

Bobiński, Grzegorz (*with* Skowroński, Andrzej) Domestic iterated one-point extensions of algebras by two-ray modules. (English summary) **2004m:16024**
— (*with* Dräxler, Peter; Skowroński, Andrzej) Domestic algebras with many nonperiodic Auslander-Reiten components. (English summary) **2004d:16033**
Brenner, Sheila On the kernel of an irreducible map. (English summary) **2004f:16024**
— (*with* Butler, M. C. R.; King, Alastair D.) Irreducible maps and bilinear forms. (English summary) **2004f:16025**
Butler, M. C. R. *see* **Brenner, Sheila et al., 2004f:16025**
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Happel, Dieter (*with* Reiten, Idun) Hereditary abelian categories with tilting object over arbitrary base fields. **2004b:16016**
King, Alastair D. *see* **Brenner, Sheila et al., 2004f:16025**
Pogorzały, Zygmunt On the Auslander-Reiten periodicity of self-injective algebras. (English summary) **2004m:16025**
Reiten, Idun *see* **Happel, Dieter, 2004b:16016**
Skowroński, Andrzej *see* **Bobiński, Grzegorz et al., 2004d:16033** *and* **2004m:16024**

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Assem, Ibrahim (*with* Coelho, Flávio Ulhoa) Two-sided gluings of tilted algebras. (English summary) **2004k:16026**
Bautista, Raymundo (*with* Zhang, Ying Bo) Representations of a k-algebra over the rational functions over k. (English summary) **2004i:16021**
Białkowski, Jerzy (*with* Skowroński, Andrzej) Selfinjective algebras of tubular type. (English summary) **2004a:16019**
— (*with* Holm, Thorsten; Skowroński, Andrzej) On nonstandard tame selfinjective algebras having only periodic modules. (English summary) **2004j:16020**
Bobiński, Grzegorz (*with* Zwara, Grzegorz) Schubert varieties and representations of Dynkin quivers. (English summary) **2004a:16026**
Coelho, Flávio Ulhoa (*with* Lanzilotta, Marcelo A.) Weakly shod algebras. (English summary) **2004f:16020**
— *see also* **Assem, Ibrahim, 2004k:16026**
García Hernández, José Luis *see* **Nguyễn Việt Dũng[2], 2004m:18009**
Green, Edward L.[1] (*with* Marcos, Eduardo do Nascimento; Zhang, Pu[1]) Koszul modules and modules with linear presentations. (English summary) **2004j:16009**
Holm, Thorsten *see* **Białkowski, Jerzy et al., 2004j:16020**
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Kleiner, Mark (*with* Pérez, Efrén) Computation of almost split sequences with applications to relatively projective and prinjective modules. (English summary) **2004h:16012**
— The graded preprojective algebra of a quiver. (English summary) **2004i:16022**
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Lenzing, Helmut (*with* Skowroński, Andrzej) Selfinjective algebras of wild canonical type. (English summary) **2004h:16013**
Lévesque, Jessica Iterated tilted and tilted stably hereditary algebras. (English summary) **2004k:16035**
Marcos, Eduardo do Nascimento *see* **Green, Edward L.[1] et al., 2004j:16009**
Martínez-Villa, Roberto (*with* Zacharia, Dan) Approximations with modules having linear resolutions. (English summary) **2004h:16005**
Nguyễn Việt Dũng[2] (*with* García Hernández, José Luis) Copure semisimple categories and almost split maps. (English summary) **2004m:18009**
Pérez, Efrén *see* **Kleiner, Mark, 2004h:16012**
Pogorzały, Zygmunt On Galois coverings of the enveloping algebras of self-injective Nakayama algebras. (English summary) **2004d:16023**
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Rump, Wolfgang Derived orders and Auslander-Reiten quivers. **2004c:16021**
— Ladder functors with an application to representation-finite Artinian rings. **2004a:16024**
— Categories of lattices, and their global structure in terms of almost split sequences. (English summary) **2004m:16023**
Skowroński, Andrzej (*with* Yamagata, Kunio) On selfinjective Artin algebras having nonperiodic generalized standard Auslander-Reiten components. (English summary) **2004k:16030**
— *see also* **Białkowski, Jerzy et al., 2004a:16019; 2004j:16020** *and* **Lenzing, Helmut, 2004h:16013**
Yamagata, Kunio *see* **Skowroński, Andrzej, 2004k:16030**
Zacharia, Dan *see* **Martínez-Villa, Roberto, 2004h:16005**
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Zhu, Bin[1] (*with* Hu, Zong Yi) A condition for a translation quiver to be a coil. (English summary) **2004a:16029**
Zwara, Grzegorz *see* **Bobiński, Grzegorz, 2004a:16026**

16G99 None of the above, but in this section

Farina, John Dominic (*with* Halverson, Tom) Character orthogonality for the partition algebra and fixed points of permutations. (English summary) **2004e:16016**
Halverson, Tom *see* **Farina, John Dominic, 2004e:16016**

Items with secondary classifications in 16G99

Bazzoni, S. Cotilting modules are pure-injective. (English summary) **2004f:16049**
Došen, Kosta (*with* Petrić, Zoran) Generality of proofs and its Brauerian representation. (English summary) **2004m:03201**
Galvão, M. Luísa (*with* Nogueira, Maria Teresa A. D.; Green, J. A.) Radicals and socles of an algebra without identity. (English summary) **2004f:16031**
Green, J. A. *see* **Galvão, M. Luísa et al., 2004f:16031**
Guay, Nicolas Projective modules in the category $\mathcal{O}$ for the Cherednik algebra. (English summary) **2004e:20009**
Hildebrand, Jeff Irreducible finite-dimensional modules of prime characteristic down-up algebras. (English summary) **2004k:16086**
Kirichenko, Anatoliĭ A. (*with* Kruglyak, Stanīslav A.) On the spectrum of a sum of projections and Coxeter functors. (Ukrainian. English and Ukrainian summaries)
Kruglyak, Stanīslav A. *see* **Kirichenko, Anatoliĭ A.**
Miyachi, Jun-Ichi Recollement and tilting complexes. (English summary) **2004g:16007**
Nogueira, Maria Teresa A. D. *see* **Galvão, M. Luísa et al., 2004f:16031**
Petrić, Zoran *see* **Došen, Kosta, 2004m:03201**

16H05 Orders and arithmetic, separable algebras, Azumaya algebras [see also 11R52, 11R54, 11S45]

Fortes Escalona, Miguel Ángel Faith-Utumi theorem for associative pairs. (English summary) **2004g:16019**
Kauta, John S. (*with* Marubayashi, Hidetoshi; Miyamoto, Haruo) Crossed product orders over valuation rings. II. Tamely ramified crossed product algebras. (English summary) **2004c:16024**
Kulkarni, Rajesh S. On the Clifford algebra of a binary form. (English summary) **2004c:16025**
Marubayashi, Hidetoshi *see* **Kauta, John S. et al., 2004c:16024**
Miyamoto, Haruo *see* **Kauta, John S. et al., 2004c:16024**
Reiner, I. ★ Maximal orders. **2004c:16026**
Schaps, Mary E. Specialization of crossed products. (English summary) **2004k:16040**
Sugano, Kozo On H-separable extensions of QF-3 rings. (English summary) **2004f:16026**
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Bonta, Iluşca On separable extensions of group graded algebras. (English summary)
Cegarra, Antonio M. (*with* Garzón, Antonio R.) Equivariant group cohomology and Brauer group. (English summary) **2004i:12007**
— (*with* Garzón, Antonio R.) Some algebraic applications of graded categorical group theory. (English summary) **2004e:18011**
Eberly, Wayne (*with* Giesbrecht, Mark) Efficient decomposition of separable algebras. (English summary) **2004k:16079**
Garzón, Antonio R. *see* **Cegarra, Antonio M., 2004e:18011** *and* **2004i:12007**
Giesbrecht, Mark *see* **Eberly, Wayne, 2004k:16079**
Kuku, Aderemi O. (*with* Tang, Guo Ping) Higher K-theory of group-rings of virtually infinite cyclic groups. (English summary) **2004a:19001**
Polcino Milies, César FC elements of algebras and orders. (English and Portuguese summaries)
Szeto, George (*with* Xue, Lianyong) The commutator Hopf Galois extensions. (English summary)
— (*with* Xue, Lianyong) On Hopf DeMeyer-Kanzaki Galois extensions. (English summary) **2004d:16073**
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— (*with* Xue, Lianyong) On central Galois algebras of a Galois algebra. (English summary) (*see* **2004k:16001**)
Tang, Guo Ping *see* **Kuku, Aderemi O., 2004a:19001**
Venkata Balaji, Te Limits of rank 4 Azumaya algebras and applications to desingularization. (English summary) **2004f:14045**
Xue, Lianyong *see* **Szeto, George, 2004d:16073** *and* **(2004k:16001)**
Zhu, Jia Gui H-separable Hopf Galois extensions and Azumaya algebra. (English summary) **2004h:16039**

16Kxx Division rings and semisimple Artin rings [see also 12E15, 15A30]

16K20 Finite-dimensional {For crossed products, see 16S35.}

Arian-Nejad, M. Some studies on Whitehead space and additive commutator group of an algebra. (English summary) (*see* **2004f:00019**)
Au-Yeung, Yik-Hoi An explicit solution for the quaternionic equation $x^2 + bx + xc + d = 0$. (English summary) **2004m:16026**
Bazylev, D. F. (*with* Van Geel, Jan; Yanchevskiĭ, V. I.) Ω-algebras over fields of rational functions with special fields of constants. (Russian. English and Russian summaries)
Berhuy, Grégory (*with* Monsurrò, Marina; Tignol, Jean-Pierre) The discriminant of a symplectic involution. (English summary) **2004c:16027**
Bernik, Janez A generalization of Brauer's theorem on splitting fields to semigroups. (English summary) **2004g:16020**
— Brauer-type results on semigroups over p-adic fields. (English summary) **2004d:16034**
Bui Xuan Hai (*with* Le Khac Huynh) On subnormal subgroups of the multiplicative group of a division ring. (English summary)
Chipchakov, I. D. Central division algebras of p-primary dimensions and the p-component of Brauer group of a p-quasilocal field. **2004a:16032**

Elomary, Mohamed Abdou Quadratic pairs in characteristic 2 and the Witt cancellation theorem. (English summary) **2004k:16041**
Ford, T. J. Division algebras that ramify only on a plane quartic curve with simply connected components. (English summary) **2004k:16042**
— Division algebras that ramify only on a plane nodal cubic curve plus a line. (English summary) **2004k:16043**
Gille, Philippe Algèbres simples centrales de degré 5 et E_8. (English summary) [Central simple algebras of degree 5 and E_8] **2004b:16017**
Han, Ilseop Relative Brauer groups of function fields of curves of genus one. (English summary) **2004d:16035**
Helmstetter, Jacques The group of classes of involutions of graded central simple algebras. (English summary) (*see* **2004i:00012**)
Idris, Ismail M. Algebraic elements in valued *-division rings. (English summary) **2004f:16027**
Ivanov, D. N. Hadamard decompositions of semisimple associative algebras. (Russian)
Lam, T. Y. On the linkage of quaternion algebras.
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Lewis, David W. Involutions and anti-automorphisms of central simple algebras. (English summary) **2004k:16045**
Lichiardopol, Nicolas A new proof of Wedderburn's theorem.
Lorenz, Martin (*with* Reichstein, Zinovy; Rowen, Louis H.; Saltman, D. J.) Fields of definition for division algebras. (English summary) **2004j:16022**
Mahdavi-Hezavehi, M. (*with* Tignol, Jean-Pierre) Cyclicity conditions for division algebras of prime degree. (English summary) **2004g:16021**
Monsurrò, Marina *see* **Berhuy, Grégory et al., 2004c:16027**
Opolka, Hans Central pairs, Galois theory and automorphic forms. (English summary) **2004k:16046**
Reichstein, Zinovy *see* **Lorenz, Martin et al., 2004j:16022**
Rowen, Louis H. Division algebras. **2004j:16023**
— *see also* **Lorenz, Martin et al., 2004j:16022**
Saltman, D. J. *see* **Lorenz, Martin et al., 2004j:16022**
Segev, Yoav Shadows of elements, solvability of finite quotients and the Margulis-Platonov conjecture. **2004f:16028**
Serhir, Ahmed (*with* Tignol, Jean-Pierre) The discriminant of a decomposable symplectic involution. (English summary) **2004k:16047**
Tignol, Jean-Pierre *see* **Berhuy, Grégory et al., 2004c:16027**; **Mahdavi-Hezavehi, M., 2004g:16021** *and* **Serhir, Ahmed, 2004k:16047**
Tikhonov, Sergey V. (*with* Yanchevskiĭ, V. I.) Indices of central simple algebras over fields of functions of projective spaces. (Russian. English and Russian summaries) **2004h:16018**
— (*with* Yanchevskiĭ, V. I.) Indices of central simple algebras over function fields of projective spaces over $P_{n,r}$-fields. (Russian. Russian summary) **2004f:16029**
Van Geel, Jan *see* **Bazylev, D. F. et al.**
Vishne, Uzi Dihedral crossed products of exponent 2 are abelian. (English summary) **2004d:16036**
Yanchevskiĭ, V. I. *see* **Tikhonov, Sergey V., 2004f:16029**; **2004h:16018** *and* **Bazylev, D. F. et al.**

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Bayer-Fluckiger, Eva (*with* Parimala, Raman; Quéguiner-Mathieu, Anne) Pfister involutions. (English summary) **2004j:16037**
Becher, Karim Johannes Le radical de Kaplansky. [The Kaplansky radical] **2004g:11030**
Beneish, Esther Lattice invariants and the center of the generic division ring. (English summary) **2004h:20007**
Bergen, Jeffrey A new proof of the Skolem-Noether theorem. (*see* **2004j:16002**)
Berhuy, Grégory Autour des formes trace des algèbres cycliques. [On the trace forms of cyclic algebras] **2004k:11051**
Brusamarello, Rosali (*with* Chuard-Koulmann, Pascale; Morales, Jorge F.) Orthogonal groups containing a given maximal torus. (English summary) **2004k:11050**
Cegarra, Antonio M. (*with* Garzón, Antonio R.) Equivariant group cohomology and Brauer group. (English summary) **2004i:12007**
Chuard-Koulmann, Pascale *see* **Brusamarello, Rosali et al., 2004k:11050**
Conway, John Horton (*with* Smith, Derek A.) ★ On quaternions and octonions: their geometry, arithmetic, and symmetry. **2004a:17002**
Farenick, Douglas R. (*with* Pidkowich, Barbara A. F.) The spectral theorem in quaternions. (English summary) **2004m:15026**
Garzón, Antonio R. *see* **Cegarra, Antonio M., 2004i:12007**
Krashen, Daniel Severi-Brauer varieties of semidirect product algebras. (English summary) **2004k:16048**
Lewis, David W. (*with* Unger, Thomas P.) A local-global principle for algebras with involution and Hermitian forms. (English summary) **2004g:11028**
Morales, Jorge F. *see* **Brusamarello, Rosali et al., 2004k:11050**
Parimala, Raman *see* **Bayer-Fluckiger, Eva et al., 2004j:16037**
Petersson, Holger P. (*with* Thakur, Maneesh) The étale Tits process of Jordan algebras revisited. **2004m:17047**
Pidkowich, Barbara A. F. *see* **Farenick, Douglas R., 2004m:15026**
Quéguiner-Mathieu, Anne Invariants cohomologiques: des formes quadratiques aux algèbres à involution. (French summary) [Cohomological invariants: from quadratic forms to involution algebras] **2004h:11033**
— *see also* **Bayer-Fluckiger, Eva et al., 2004j:16037**
Rajan, B. Sundar *see* **Sethuraman, B. A. et al., 2004k:94035**
Reiner, I. ★ Maximal orders. **2004c:16026**
dos Santos, Clotilzio Moreira On Witt rings of quaternion algebras over 1-Hilbert fields. **2004b:11048**
Sethuraman, B. A. (*with* Rajan, B. Sundar; Shashidhar, V.) Full-diversity, high-rate space-time block codes from division algebras. (English summary) **2004k:94035**
Shashidhar, V. *see* **Sethuraman, B. A. et al., 2004k:94035**
Smith, Derek A. *see* **Conway, John Horton, 2004a:17002**
(Taylor, Martin J.) *see* **Reiner, I., 2004c:16026**
Thakur, Maneesh *see* **Petersson, Holger P., 2004m:17047**
Unger, Thomas P. *see* **Lewis, David W., 2004g:11028**
Wang, Qing-wen The consistency of systems of matrix equations over a finite central algebra. (English summary)
Xi, Changchang (*with* Xiang, Da-jing) Cellular algebras and Cartan matrices. (English summary) **2004g:16015**
Xiang, Da-jing *see* **Xi, Changchang, 2004g:16015**

16K40 Infinite-dimensional and general

Chiba, Katsuo Free fields in complete skew fields and their valuations. (English summary) **2004c:16028**
Idris, Ismail M. On ordered division rings. (English summary) **2004a:16033**

Items with secondary classifications in 16K40

Alaoui, M. *see* **Haily, A., (2004i:00013)**
Haily, A. (*with* Alaoui, M.) Anneaux parfaits pour lesquels la réciproque du lemme de Schur est vérifiée. (English summary) [Perfect rings for which the converse of the Schur lemma holds] (*see* **2004i:00013**)

16K50 Brauer groups [see also 12G05, 14F22]

Aljadeff, Eli (*with* Sonn, Jack) Projective Schur groups of iterated power series fields. (English summary) **2004m:16027**
Bushuev, I. A. (*with* Yanchevskiĭ, V. I.) On algebras of exponent two that are trivial in all real closures of their centers. (Russian. English and Russian summaries) **2004f:16030**
Krashen, Daniel Severi-Brauer varieties of semidirect product algebras. (English summary) **2004k:16048**
Kresch, Andrew Hodge-theoretic obstruction to the existence of quaternion algebras. (English summary) **2004c:16029**
Ojanguren, Manuel (*with* Parimala, Raman) Quadratic forms over complete local rings. (English summary) **2004e:16017**
Parimala, Raman *see* **Ojanguren, Manuel, 2004e:16017**
Smet, A. (*with* Verschoren, A.) Mayer-Vietoris sequences for Krull domains. (English summary) **2004d:16037**
Sonn, Jack *see* **Aljadeff, Eli, 2004m:16027**
Verschoren, A. *see* **Smet, A., 2004d:16037**
Yanchevskiĭ, V. I. *see* **Bushuev, I. A., 2004f:16030**

Items with secondary classifications in 16K50

Ballico, Edoardo (*with* Kollár, János) The Picard group of singular curves. **2004m:14007**
Bazylev, D. F. (*with* Van Geel, Jan; Yanchevskiĭ, V. I.) Ω-algebras over fields of rational functions with special fields of constants. (Russian. English and Russian summaries)
Borceux, Fr. *see* **Moens, M.-A., 2004i:18013**
Carnovale, G. (*with* Cuadra Díaz, Juan) The Brauer group of some quasitriangular Hopf algebras. (English summary) **2004b:16057**
Cegarra, Antonio M. (*with* Garzón, Antonio R.) Equivariant group cohomology and Brauer group. (English summary) **2004i:12007**
Chipchakov, I. D. Central division algebras of p-primary dimensions and the p-component of Brauer group of a p-quasilocal field. **2004a:16032**
Cuadra Díaz, Juan *see* **Carnovale, G., 2004b:16057**
Ford, T. J. Division algebras that ramify only on a plane quartic curve with simply connected components. (English summary) **2004k:16042**
— Division algebras that ramify only on a plane nodal cubic curve plus a line. (English summary) **2004k:16043**
Garzón, Antonio R. *see* **Cegarra, Antonio M., 2004i:12007**
Han, Ilseop Relative Brauer groups of function fields of curves of genus one. (English summary) **2004d:16035**
— Hasse principles for the Brauer groups of algebraic function fields of genus zero over global fields. (English summary) **2004e:11035**
Kollár, János *see* **Ballico, Edoardo, 2004m:14007**
Moens, M.-A. (*with* Borceux, Fr.) On Azumaya graphs. (English summary) **2004i:18013**
Rowen, Louis H. Division algebras. **2004j:16023**
Tikhonov, Sergey V. (*with* Yanchevskiĭ, V. I.) Indices of central simple algebras over function fields of projective spaces over $P_{n,r}$-fields. (Russian. Russian summary) **2004f:16029**
Van Geel, Jan *see* **Bazylev, D. F. et al.**
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16Lxx Local rings and generalizations

16L30 Noncommutative local and semilocal rings, perfect rings

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16L60 Quasi-Frobenius rings [see also 16D50]

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16Nxx Radicals and radical properties of rings

16N20 Jacobson radical, quasimultiplication

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16N40 Nil and nilpotent radicals, sets, ideals, rings

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16N60 Prime and semiprime rings [see also 16D60, 16U10]

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Wu, Wei Derivations in prime rings. (Chinese. English and Chinese summaries)
Xu, Xiao Wei[1] Nilpotent derivations in semiprime rings. (Chinese. English and Chinese summaries)
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16N80 General radicals and rings {For radicals in module categories, see 16S90.}

Alvarado-García, Alejandro (*with* Rincón-Mejía, Hugo Alberto; Ríos-Montes, José) Natural classes, left exact preradicals, and flat epimorphisms. (English summary) **2004f:16035**
Andruszkiewicz, R. R. A note on compact elements in the lattice of radicals. (English summary) **2004b:16021**
Aslam, M. *see* **Zulfiqar, Muhammad**
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Smoktunowicz, Agata $R[x, y]$ is Brown-McCoy radical if $R[x]$ is Jacobson radical. (English summary) **2004k:16054**
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— (*with* Wiegandt, Richard) Radicals of polynomial rings. (English summary) **2004k:16055**
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16Pxx Chain conditions, growth conditions, and other forms of finiteness

16P10 Finite rings and finite-dimensional algebras {For semisimple, see 16K20; for commutative, see 11Txx, 13Mxx.}

Oyuntsetseg, Lkhangaa (*with* Sumiyama, Takao) On distance between finite rings. (English summary) (*see* **2004k:16001**)
Sumiyama, Takao *see* **Oyuntsetseg, Lkhangaa**, (**2004k:16001**)
Wakamatsu, Takayoshi On Frobenius algebras. (English summary) **2004f:16036**
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16P20 Artinian rings and modules

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16P40 Noetherian rings and modules

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16P50 Localization and Noetherian rings [see also 16U20]

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16P60 Chain conditions on annihilators and summands: Goldie-type conditions [see also 16U20], Krull dimension

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16P70 Chain conditions on other classes of submodules, ideals, subrings, etc.; coherence

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16Rxx Rings with polynomial identity

16R10 T-ideals, identities, varieties of rings and algebras

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Benanti, Francesca (*with* Demmel, James W.; Drensky, Vesselin; Koev, Plamen) Computational approach to polynomial identities of matrices—a survey. (English summary) **2004i:16030**
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— (*with* Giambruno, Antonino; Pipitone, Manuela) Polynomial identities on superalgebras and exponential growth. (English summary) **2004h:16023**
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Kemer, A. R. On some problems in PI-theory in characteristic p connected with dividing by p. (English summary) **2004k:16062**
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— PI Hopf algebras of prime characteristic. (English summary) **2004c:16066**
— Identities in the smash product of the universal enveloping superalgebra of a Lie superalgebra and a group algebra. (Russian. Russian summary) **2004e:17009**
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16R20 Semiprime p.i. rings, rings embeddable in matrices over commutative rings

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16R30 Trace rings and invariant theory

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Formanek, Edward The ring of generic matrices. **2004a:16039**
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Beneish, Esther Lattice invariants and the center of the generic division ring. (English summary) **2004h:20007**
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16R40 Identities other than those of matrices over commutative rings

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16R50 Other kinds of identities (generalized polynomial, rational, involution)

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— (*with* Šemrl, Peter) Commuting traces of biadditive maps revisited. (English summary) **2004b:16035**
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16Sxx Rings and algebras arising under various constructions

16S10 Rings determined by universal properties (free algebras, coproducts, adjunction of inverses, etc.)

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Fornasiero, Marianna Projective version of Malcolmson's criterion. (English and Italian summaries) **2004e:16023**
Gavrilov, A. V. A free associative algebra as a free module over a Specht subalgebra. (Russian. Russian summary) **2004c:16038**
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Hoffman, Michael E. (*with* Ohno, Yasuo) Relations of multiple zeta values and their algebraic expression. (English summary) **2004c:11163**
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16S15 Finite generation, finite presentability, normal forms (diamond lemma, term-rewriting)

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Zanardo, Paolo u-independence and quadratic u-independence in the construction of indecomposable finitely generated modules. (English summary) **2004f:16004**

16S20 Centralizing and normalizing extensions

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Parmenter, Michael (*with* Zhou, Yiqiang) Finitely Σ-CS property of excellent extensions of rings. (English summary) **2004a:16041**
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16S30 Universal enveloping algebras of Lie algebras [See mainly 17B35]

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16S38 Rings arising from non-commutative algebraic geometry

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16S60 Rings of functions, subdirect products, sheaves of rings

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16S70 Extensions of rings by ideals

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16S80 Deformations of rings [see also 13D10, 14D15]

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16S90 Maximal ring of quotients, torsion theories, radicals on module categories [see also 13D30, 18E40] {For radicals of rings, see 16Nxx.}

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16Uxx Conditions on elements

16U10 Integral domains

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16U20 Ore rings, multiplicative sets, Ore localization

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16U30 Divisibility, noncommutative UFDs

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16U60 Units, groups of units

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— On torsion units in the group ring $\mathbf{Z}A_4$ and the first conjecture of Zassenhaus. (English summary) **2004f:16054**
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16U80 Generalizations of commutativity

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16U99 None of the above, but in this section

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16Wxx Rings and algebras with additional structure

16W10 Rings with involution; Lie, Jordan and other nonassociative structures [see also 17B60, 17C50, 46Kxx]

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Dolinka, Igor *see* **Crvenković, Siniša et al., 2004b:16050**
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Idris, Ismail M. Algebraic elements in valued *-division rings. (English summary) **2004f:16027**
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16W20 Automorphisms and endomorphisms

Ali, Asma (*with* Ashraf, Mohammad; Ali, Shakir) Jordan automorphisms on Jordan ideals of prime rings. (English and Chinese summaries) **2004b:16052**
Ali, Shakir *see* **Ali, Asma et al., 2004b:16052**
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Xie, Luo Ping (*with* Cao, You An) Automorphisms of the upper triangular matrix ring over commutative rings. (Chinese. English and Chinese summaries) **2004a:16050**
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Zhang, Xiuying (*with* Wang, Yu²) (Right) partial generalized automorphisms of semiprime rings. (English summary) **2004b:16053**

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Alev, Jacques (*with* Dumas, François) Field generators for the quantum plane. (English summary) **2004k:16076**
Ashraf, Mohammad *see* **Abujabal, H. A. S.**
Calderón Martín, Antonio J. (*with* Martín González, Cándido) Lie isomorphisms on H^*-algebras. (English summary) **2004b:46063**
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Martín González, Cándido *see* **Calderón Martín, Antonio J., 2004b:46063**
Shpilrain, Vladimir (*with* Yu, Jie-Tai) Factor algebras of free algebras: on a problem of G. Bergman. (English summary) **2004d:16046**
Tang, Xiao Min (*with* Cao, Chong Guang) Modular automorphisms of triangular matrices over commutative rings preserving involutory and tripotent. (English summary) **2004e:16034**
Tsuchimoto, Yoshifumi Preliminaries on Dixmier conjecture. (English summary) **2004k:16070**
Yu, Jie-Tai *see* **Shpilrain, Vladimir, 2004d:16046**

16W22 Actions of groups and semigroups; invariant theory

Szeto, George (*with* Xue, Lianyong) On central Galois algebras of a Galois algebra. (English summary) (*see* **2004k:16001**)
Wu, Zhi Xiang The G_3-Galois extensions. (Chinese. English and Chinese summaries) **2004i:16043**
Xue, Lianyong *see* **Szeto, George**, (**2004k:16001**)

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— Polynomial identities for 2×2 matrices with finite group actions. **2004m:16034**
Choi, Eunmi (*with* Lee, Heisook) On class algebras. (English summary) **2004c:16045**
Domokos, M. Matrix invariants and the failure of Weyl's theorem. **2004m:13020**
Farinati, Marco A. (*with* Solotar, Andrea; Suarez-Alvarez, Mariano) Hochschild homology and cohomology of generalized Weyl algebras. (English and French summaries) **2004d:16014**
Giambruno, Antonino Group actions, codimensions and exponential behaviour. **2004i:16031**
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Lee, Heisook *see* **Choi, Eunmi, 2004c:16045**
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Solotar, Andrea *see* **Farinati, Marco A. et al., 2004d:16014**
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16W25 Derivations, actions of Lie algebras

Asma, A. (*with* Rehman, Nadeem-Ur; Shakir, A.) On Lie ideals with derivations as homomorphisms and anti-homomorphisms. (English summary)
Chang, Chi-Ming Power central values of derivations on multilinear polynomials. (English summary) **2004c:16059**
Chaudhry, Muhammad Anwar (*with* Thaheem, A. B.) (α, β)-derivations on semiprime rings. (English summary) **2004g:16034**
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Crupi, Marilena (*with* Restuccia, Gaetana) Systems of derivations in characteristic $p > 0$. (English summary) **2004k:16090**
Cui, Shi Hua (*with* Niu, Feng Wen) Derivation on infinite matrix rings. (Chinese. English and Chinese summaries)
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Haetinger, C. Higher derivations on Lie ideals. (English and Portuguese summaries) **2004g:16035**
Jing, Wu (*with* Lu, Shi Jie) Generalized Jordan derivations on prime rings and standard operator algebras. (English summary) **2004i:16044**
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Samman, Mohammad (*with* Thaheem, A. B.) Derivations on semiprime rings. (English summary) **2004b:16054**
Shakir, A. *see* **Asma, A. et al.**
Su, Yucai Derivations of generalized Weyl algebras. (English summary) **2004k:16091**
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Wang, Xin Min[3] Derivation algebras for group algebras of finitely generated Abelian groups. (Chinese. English and Chinese summaries)
Wong, Tsai-Lien A note on derivations of higher order and commutativity of prime rings. (English summary)
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Xu, Xiao Wei[1] Nilpotent derivations in semiprime rings. (Chinese. English and Chinese summaries)
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Argaç, Nurcan On near-rings with two-sided α-derivations. (English summary)
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Cho, Yong Uk *see* **Jun, Young Bae et al.**
Cohen, Arjeh M. (*with* Draisma, Jan) From Lie algebras of vector fields to algebraic group actions. (English summary) **2004a:17025**
De Filippis, Vincenzo Left annihilators of commutators with derivation on right ideals. (English summary) **2004f:16033**
— On a subset with nilpotent and invertible values in prime rings. (English summary) **2004h:16019**
— *see also* **Carini, Luisa**, **2004g:16022**
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— (*with* Pajoohesh, H.) Positive derivations on (semi) prime l-rings. (English summary)
Gerritzen, Lothar Taylor expansion of noncommutative power series with an application to the Hausdorff series. (English summary) **2004a:16061**
Hamaguchi, Naoki (*with* Nakajima, Atsushi) Derivations of skew polynomial rings. (English summary) **2004f:16043**
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Jung, Yong-Soo *see* **Park, Kyoo-Hong**, **2004i:16028**
Khan, Moharram A. Remarks on symmetric biderivations of rings. (English summary)
Kim, Byung-Do Derivations of semiprime rings and noncommutative Banach algebras. (English summary) **2004b:46064**
Kim, Kyung Ho *see* **Jun, Young Bae et al.**
Lee, Tsiu-Kwen (*with* Liu, Kun-Shan; Shiue, Wen-Kwei) n-commuting maps on prime rings. (English summary)
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16W60 Valuations, completions, formal power series and related constructions [see also 13Jxx]

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16W80 Topological and ordered rings and modules [see also 06F25, 13Jxx]

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16Z05 Computational aspects of associative rings [see also 68W30]

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17–XX Nonassociative rings and algebras

17–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 17–01

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17–02 Research exposition (monographs, survey articles)

Artamonov, Vyacheslav A. (*with* Mikhalëv, A. A.; Mikhalëv, A. V.) Combinatorial properties of free algebras of Schreier varieties. (English summary) **2004j:17001**
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Items with secondary classifications in 17–04

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(Sthanumoorthy, N.) *see* **Kac-Moody Lie algebras and related topics, 2004k:17001**

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— ★ Kac-Moody Lie algebras and related topics. **2004k:17001**
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(Berman, Stephen) *see* **Vertex operator algebras in mathematics and physics, 2004g:00021**
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(Boudi, Nadia) *see* **Proceedings: Conference on Algebras and their Applications, 2004i:00013**
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(Duval, Christian) *see* **Orbit method in geometry and physics, 2004c:00020**
(Guieu, Laurent) *see* **Orbit method in geometry and physics, 2004c:00020**
(Helmke, Uwe) *see* **Lie theory and its applications in control**
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(Kaïdi, El Amin Mokhtar) *see* **Proceedings: Conference on Algebras and their Applications, 2004i:00013**
(Kirillov, Aleksandr Aleksandrovich) *see* **Orbit method in geometry and physics, 2004c:00020**
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(Lepowsky, James) *see* **Vertex operator algebras in mathematics and physics, 2004g:00021**
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17–08 Computational methods

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Camacho, L. M. (*with* Gómez Martín, José Ramón; Navarro, R. M.; Rodríguez Garcia, Isabel M.) Mathematica and nilpotent Lie superalgebras. (English summary) **2004a:17011**
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17Axx General nonassociative rings

17A01 General theory

Argaç, Nurcan (*with* Ponomarev, Konstantin N.) On centroid and extended centroid of rings. (English summary) **2004k:17002**
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Rodríguez-Palacios, Ángel *see* **Cedilnik, Anton, 2004d:46056**

17A05 Power-associative rings

Correa, Iván (*with* Hentzel, Irvin Roy; Peresi, Luiz Antonio) On the solvability of the commutative power-associative nilalgebras of dimension 6. (English summary) **2004d:17001**
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17A30 Algebras satisfying other identities

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He, Sui *see* **Bai, Cheng-Ming et al., 2004j:17002**
Hentzel, Irvin Roy *see* **Correa, Iván et al.**
Labra, Alicia *see* **Correa, Iván et al.**
Mallol, Cristián *see* **Benavides, Raúl et al.**
Meng, Dao Ji *see* **Bai, Cheng-Ming et al., 2004a:17001; 2004b:17002; 2004h:17001; 2004j:17002** *and* **Zhao, Yufeng, 2004h:17002**
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17A32 Leibniz algebras

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Casas Miras, José Manuel (*with* Ladra González, Manuel) Stem extensions and stem covers of Leibniz algebras. (English summary) **2004b:17005**
— (*with* Ladra González, Manuel) Non-abelian tensor product of Leibniz algebras and an exact sequence in Leibniz homology. (English summary) **2004h:17003**
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Drensky, Vesselin (*with* Piacentini Cattaneo, Giulia Maria) Free nilpotent-by-abelian Leibniz algebras. (English summary) **2004k:17003**
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López-Reyes, Nancy *see* **Felipe, Raúl et al., 2004c:17002**
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Pozhidaev, A. P. Enveloping algebras of Filippov algebras. (English summary) **2004b:17008**

17A35 Division algebras

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Banaru, Mikhail On six-dimensional $G2$-submanifolds of the Cayley algebra. (Russian. Russian summary) **2004f:17001**
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Conway, John Horton (*with* Smith, Derek A.) ★ On quaternions and octonions: their geometry, arithmetic, and symmetry. **2004a:17002**
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Elduque, Alberto *see* **Benito, Pilar et al., 2004f:17002**
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Lindberg, Lars *see* **Dieterich, Ernst, 2004k:17004**
Lounesto, Pertti Octonions and triality.
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Smith, Derek A. *see* **Conway, John Horton, 2004a:17002**

Items with secondary classifications in 17A35

Albuquerque, Helena (*with* Santana, Ana Paula) A note on quasiassociative algebras. (English summary) **2004f:17006**
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Carrion, Hector Leny (*with* Rojas, Moises; Toppan, Francesco) Division algebras and extended $N = 2, 4, 8$ superKdVs. (English summary) **2004c:37179**
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Elduque, Alberto Quaternions, octonions and the forms of the exceptional simple classical Lie superalgebras. (English summary) **2004k:17016**
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Kantor, William M. Commutative semifields and symplectic spreads. (English summary) **2004k:51003**
Meškauskas, T. *see* **Chaitin-Chatelin, F., 2004e:37062**
Nagy, Gábor P. (*with* Vojtěchovský, Petr) Automorphism groups of simple Moufang loops over perfect fields. (English summary) **2004i:20126**
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17A36 Automorphisms, derivations, other operators

Jain, Sapna *see* **Nam, Ki-Bong et al.**
Jiménez-Gestal, Clara (*with* Pérez-Izquierdo, José M.) Ternary derivations of generalized Cayley-Dickson algebras. (English summary) **2004f:17003**
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Nam, Ki-Bong (*with* Wang, Moon-Ok) Notes on some non-associative algebras. (English summary)
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Items with secondary classifications in 17A36

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Bai, Cheng-Ming (*with* Meng, Dao Ji; He, Sui) Derivations on Novikov algebras. (English summary) **2004j:17002**
— (*with* Meng, Dao Ji) The automorphisms of Novikov algebras in low dimensions. (English summary) **2004h:17001**
Bai, Rui Pu (*with* Meng, Dao Ji) The simple n-ary Lie algebras. (English summary) **2004f:17004**
Benito, Pilar (*with* Draper, Cristina; Elduque, Alberto) Models of the octonions and G_2. (English summary) **2004f:17002**
Draper, Cristina *see* **Benito, Pilar et al., 2004f:17002**
Elduque, Alberto *see* **Benito, Pilar et al., 2004f:17002**
He, Sui *see* **Bai, Cheng-Ming et al., 2004j:17002**
Meng, Dao Ji *see* **Bai, Rui Pu, 2004f:17004**; **Bai, Cheng-Ming et al., 2004h:17001** *and* **2004j:17002**
Mikhalëv, A. A. *see* **Artamonov, Vyacheslav A. et al., 2004j:17001**
Mikhalëv, A. V. *see* **Artamonov, Vyacheslav A. et al., 2004j:17001**
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17A40 Ternary compositions

Calderón Martín, Antonio J. (*with* Martín González, Cándido) A note on L^*-triples. (English summary) (*see* **2004i:00013**)
Kamiya, Noriaki On radicals of triple systems. (*see* **2004c:16001**)
— (*with* Okubo, Susumu) Construction of Lie superalgebras $D(2, 1; \alpha)$, $G(3)$ and $F(4)$ from some triple systems. (English summary) **2004a:17003**
Li, Hong-zhi Derivations of triple system and complete Lie triple system. (English and Chinese summaries)
Liu, Jian-bo On nilpotence of Lie or anti-Lie triple system. (English and Chinese summaries)
Martín González, Cándido *see* **Calderón Martín, Antonio J.**, (**2004i:00013**)
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Okubo, Susumu *see* **Kamiya, Noriaki, 2004a:17003**
Shi, Yi Qian *see* **Meng, Dao Ji**

Items with secondary classifications in 17A40

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Koulibaly, Akry (*with* Ouedraogo, Marie Françoise) Supersystèmes triples de Lie associés aux superalgèbres de Malcev. (English summary) [Lie triple supersystems associated with Mal′tsev superalgebras] **2004a:17037**
Mikityuk, I. V. The Lie triple system of the symmetric space $F_4/\mathrm{Spin}(9)$. (English summary) **2004e:53078**
Moreno Galindo, Antonio (*with* Rodríguez-Palacios, Ángel) On the Zelmanovian classification of prime JB^*- and JBW^*-triples. (English summary) **2004c:46101**
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Pozhidaev, A. P. Enveloping algebras of Filippov algebras. (English summary) **2004b:17008**
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Sandu, N. I. On the J-potency of finitely generated Mal′tsev algebras. (Russian. English, Romanian and Russian summaries) **2004e:17029**

17A42 Other n-ary compositions $(n \geq 3)$

Bai, Rui Pu (*with* Meng, Dao Ji) The simple n-ary Lie algebras. (English summary) **2004f:17004**
— (*with* Meng, Dao Ji) The strong semi-simple n-Lie algebras. (English summary) **2004i:17002**
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Casas Miras, José Manuel Homology with trivial coefficients of Leibniz n-algebras. (English summary) **2004c:17003**
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Pozhidaev, A. P. Solvability of finite-dimensional n-ary commutative Leibniz algebras of characteristic 0. (English summary) **2004b:17007**
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Rotkiewicz, M. Irreducible identities of n-algebras. (English summary) **2004k:17005**
Yang, Qin *see* **Zhang, Zhi Xue et al.**
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Zhao, Guan Hua Derivations and automorphism group of n-Lie algebras. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Zhi Xue et al.**

Items with secondary classifications in 17A42

Dzhumadil'daev, A. S. Identities and derivations for Jacobian algebras. (English summary) **2004a:17031**

17A45 Quadratic algebras (but not quadratic Jordan algebras)

Items with secondary classifications in 17A45

Dieterich, Ernst (*with* Lindberg, Lars) Dissident maps on the seven-dimensional Euclidean space. (English summary) **2004k:17004**
Lindberg, Lars *see* **Dieterich, Ernst**, **2004k:17004**

17A50 Free algebras

Gerritzen, Lothar (*with* Holtkamp, Ralf) Hopf co-addition for free magma algebras and the non-associative Hausdorff series. (English summary) **2004d:17002**
Holtkamp, Ralf *see* **Gerritzen, Lothar**, **2004d:17002**

Items with secondary classifications in 17A50

Artamonov, Vyacheslav A. (*with* Mikhalëv, A. A.; Mikhalëv, A. V.) Combinatorial properties of free algebras of Schreier varieties. (English summary) **2004j:17001**
Mikhalëv, A. A. (*with* Shpilrain, Vladimir; Yu, Jie-Tai) ★ Combinatorial methods. **2004k:01001**
— *see also* **Artamonov, Vyacheslav A. et al.**, **2004j:17001**
Mikhalëv, A. V. *see* **Artamonov, Vyacheslav A. et al.**, **2004j:17001**
Shpilrain, Vladimir *see* **Mikhalëv, A. A. et al.**, **2004k:01001**
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17A60 Structure theory

Danilov, A. N. On the Magnus representation for nonassociative algebras. (Russian. Russian summary)
González Jiménez, Santos (*with* Martínez López, Consuelo; Rúa, I. F.; Markov, Viktor; Nechaev, Aleksandr) Coordinate sets of generalized Galois rings. (English summary) **2004m:17001**
Markov, Viktor *see* **González Jiménez, Santos et al.**, **2004m:17001**
Martínez López, Consuelo *see* **González Jiménez, Santos et al.**, **2004m:17001**
Nechaev, Aleksandr *see* **González Jiménez, Santos et al.**, **2004m:17001**
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17A65 Radical theory

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17A70 Superalgebras

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17A75 Composition algebras

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17A80 Valued algebras

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17B01 Identities, free Lie (super)algebras

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17B10 Representations, algebraic theory (weights)

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17B25 Exceptional (super)algebras

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17B45 Lie algebras of linear algebraic groups [see also 14Lxx and 20Gxx]

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17Cxx Jordan algebras (algebras, triples and pairs)

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17C05 Identities and free Jordan structures

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— (*with* Rodríguez-Palacios, Ángel) On the Zelmanovian classification of prime JB^*- and JBW^*-triples. (English summary) **2004c:46101**
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17C17 Radicals

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17C20 Simple, semisimple algebras

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17C27 Idempotents, Peirce decompositions

Kamiya, Noriaki *see* **Kantor, I. L., 2004j:17039**
Kantor, I. L. (*with* Kamiya, Noriaki) A Peirce decomposition for generalized Jordan triple systems of second order. (English summary) **2004j:17039**

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17C30 Associated groups, automorphisms

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Iordănescu, Radu ★ Jordan structures in geometry and physics. **2004f:17046**
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Petersson, Holger P. (*with* Thakur, Maneesh) The étale Tits process of Jordan algebras revisited. **2004m:17047**
Strašek, Rok A remark on Lorentz algebras. (English summary)
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— (*with* Zaitsev, Dmitri) On the CR-structure of compact group orbits associated with bounded symmetric domains. **2004h:32040**
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17C65 Jordan structures on Banach spaces and algebras [see also 46H70, 46L70]

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— Jordan triple maps. (English summary) **2004i:47064**
Marhnine, Hassan (*with* Zarhouti, Chafika) Structure of additive derivations on some class of Jordan-Banach pairs. (English summary) **2004m:46121**
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— Spectrally bounded operators on simple C^*-algebras. (English summary) **2004i:47065**
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Strašek, Rok A remark on Lorentz algebras. (English summary)
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Velasco Collado, María Victoria *see* **Rodríguez-Palacios, Ángel, 2004i:46079**
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17C70 Super structures

García, Esther (*with* Neher, Erhard) Semiprime, prime and simple Jordan superpairs covered by grids. (English summary) **2004k:17056**
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Neher, Erhard *see* **García, Esther, 2004d:17035**
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17C90 Applications to physics

Items with secondary classifications in 17C90

Iordănescu, Radu ★ Jordan structures in geometry and physics. **2004f:17046**

17C99 None of the above, but in this section

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17Dxx Other nonassociative rings and algebras

17D05 Alternative rings

Hentzel, Irvin Roy (*with* Peresi, Luiz Antonio) A nonzero element of degree 7 in the center of the free alternative algebra. (English summary) **2004e:17028**
Peresi, Luiz Antonio *see* **Hentzel, Irvin Roy, 2004e:17028**
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Krempa, Jan On free subgroups of units in quaternion algebras. II. (English summary) **2004i:16042**
Nagy, Gábor P. Algebraic commutative Moufang loops. (English summary) **2004a:20074**
Shestakov, Ivan P. Free Malcev superalgebra on one odd generator. (English summary) **2004h:17031**
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17D10 Mal′cev (Mal′tsev) rings and algebras

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Liu, Shu Jun[1] Invariant bilinear forms on real simple Malcev algebras. (Chinese. English and Chinese summaries)
Ouedraogo, Marie Françoise *see* **Koulibaly, Akry, 2004a:17037**
Pchelintsev, S. V. Speciality of metabelian Mal′tsev algebras. (Russian. Russian summary) **2004k:17057**
Pérez-Izquierdo, José M. (*with* Shestakov, Ivan P.) An envelope for Malcev algebras. (English summary) **2004j:17040**
Sandu, N. I. On the J-potency of finitely generated Mal′tsev algebras. (Russian. English, Romanian and Russian summaries) **2004e:17029**
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Grishkov, A. N. Lie algebras with triality. (English summary) **2004h:17019**
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Papadima, Stefan (*with* Suciu, Alexander I.) Chen Lie algebras. **2004m:17043**
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17D25 Lie-admissible algebras

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— *see also* **Lee, Ki-Suk**
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Nam, Ki-Bong (*with* Wang, Moon-Ok) Notes on some non-associative algebras. (English summary)
— Graded radical W-type non-associative algebras. I. (English summary)
Wang, Moon-Ok *see* **Nam, Ki-Bong**

17D92 Genetic algebras

Basso, I. (*with* Costa, Roberto C. F.; Picanço, J.) On the invariance of subspaces in some baric algebras. (English summary) **2004b:17055**
Benavides, Raúl *see* **Mallol, Cristián et al., 2004a:17038**
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— (*with* Varro, Richard) Algèbres associées aux train algèbres de rang 3. (French summary) [Algebras associated with rank-3 train algebras]
— (*with* Varro, Richard; Benavides, Raúl) Gamétisation d'algèbres pondérées. (French summary) [Gametization of weighted algebras] **2004a:17038**
Micali, Artibano Algèbres de Clifford en biologie. (English summary) [Clifford algebras in biology] (*see* **2004i:00013**)
Picanço, J. *see* **Basso, I. et al., 2004b:17055**
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Zitan, Fouad Sur les algèbres pondérées semi-simples. (English summary) [Semisimple baric algebras] **2004a:17039**

17D99 None of the above, but in this section

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Núñez-Valdés, Juan *see* **Falcón Ganfornina, Raúl M., 2004e:17030**

18–XX Category theory; homological algebra {For commutative rings see 13Dxx, for associative rings 16Exx, for groups 20Jxx, for topological groups and related structures 57Txx; see also 55Nxx and 55Uxx for algebraic topology.}

18–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 18–00

(Mikhalëv, A. V.) *see* **Handbook: Algebra, 2004c:00001**
(Pilz, Günter F.) *see* **Handbook: Algebra, 2004c:00001**

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Handbook:
Algebra ★ The concise handbook of algebra. **2004c:00001**

18–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 18–02

(Backhouse, Roland) *see* **Algebraic and coalgebraic methods in the mathematics of program construction, 2004d:68001**
(Crole, Roy L.) *see* **Algebraic and coalgebraic methods in the mathematics of program construction, 2004d:68001**
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Algebraic and coalgebraic methods in the mathematics of program construction ★ Algebraic and coalgebraic methods in the mathematics of program construction. **2004d:68001**
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18–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 18–03

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18–06 Proceedings, conferences, collections, etc.

(Grandis, Marco) *see* **Homotopy theory**
(Schellekens, Michel) *see* **On formal description of computations—refined structures and new trends**
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Items listed otherwise than by author

Coalgebraic methods in computer science ★ Coalgebraic methods in computer science.
Conference:
Mathematical Foundations of Computer Science and Information Technology ★ On formal description of computations—refined structures and new trends.
Cork ★ On formal description of computations—refined structures and new trends.
Genova ★ Coalgebraic methods in computer science.
Homotopy theory ★ Homotopy theory.
On formal description of computations—refined structures and new trends ★ On formal description of computations—refined structures and new trends.

Items with secondary classifications in 18–06

(Greenlees, J. P. C.) *see* **Axiomatic, enriched and motivic homotopy theory, 2004m:55001**

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Axiomatic, enriched and motivic homotopy theory ★ Axiomatic, enriched and motivic homotopy theory. **2004m:55001**
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Algebra Seminar ★ Proceeding of the 13th Algebra Seminar. **2004f:00019**
Urmia ★ Proceeding of the 13th Algebra Seminar. **2004f:00019**

18Axx General theory of categories and functors

18A05 Definitions, generalizations

Menni, Matías About $\mathcal{V}$-quantifiers. (English summary) **2004h:18001**
Steinberg, Benjamin (*with* Tilson, Bret) Categories as algebra. II. (English summary) **2004m:18001**
Tilson, Bret *see* **Steinberg, Benjamin, 2004m:18001**

Items with secondary classifications in 18A05

Castellini, G. (*with* Holgate, D.) A link between two connectedness notions. (English summary) **2004g:18002**
Chen, Huan Yin *see* **Ouyang, Lun Qun, 2004i:13019**
Crans, Sjoerd E. Localizations of transfors. (English summary) **2004d:18003**
Holgate, D. *see* **Castellini, G., 2004g:18002**
Hosseini, S. N. *see* **Mousavi, S. Sh. et al.**
Mousavi, S. Sh. (*with* Zahedi, Mohammad M.; Hosseini, S. N.) Category of topological polygroup objects. (English summary)
Ouyang, Lun Qun (*with* Chen, Huan Yin) Homological dimensions of the residue rings of power series rings. (Chinese. English and Chinese summaries) **2004i:13019**
Zahedi, Mohammad M. *see* **Mousavi, S. Sh. et al.**

18A10 Graphs, diagram schemes, precategories [See especially 20L05]

Items with secondary classifications in 18A10

Oziewicz, Zbigniew Operad of graphs, convolution and quasi Hopf algebra. (English summary) **2004c:18005**
Steinberg, Benjamin (*with* Tilson, Bret) Categories as algebra. II. (English summary) **2004m:18001**
Tilson, Bret *see* **Steinberg, Benjamin, 2004m:18001**

18A15 Foundations, relations to logic and deductive systems [see also 03–XX]

Items with secondary classifications in 18A15

Buşneag, Dumitru (*with* Piciu, Dana) Injective objects in the BL-algebras category. I. (English summary)
Došen, Kosta (*with* Petrić, Zoran) Generality of proofs and its Brauerian representation. (English summary) **2004m:03201**
Mikhalëv, A. V. *see* **Zakharov, Valeriĭ Konstantinovich, 2004c:03013**
Petrić, Zoran *see* **Došen, Kosta, 2004m:03201**
Piciu, Dana *see* **Buşneag, Dumitru**
Zakharov, Valeriĭ Konstantinovich (*with* Mikhalëv, A. V.) The MacLane problem on the set-theoretic foundation for category theory. II. **2004c:03013**

18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms

Janelidze, George (*with* Sobral, Maria Manuela) Finite preorders and topological descent. II. Étale descent. (English summary) **2004c:18001**
— (*with* Sobral, Maria Manuela) Finite preorders and topological descent. I. (English summary) **2004c:18002**
Janelidze, Zurab Characterization of pointed varieties of universal algebras with normal projections. (English summary) **2004b:18001**
Sobral, Maria Manuela *see* **Janelidze, George, 2004c:18001** *and* **2004c:18002**

Items with secondary classifications in 18A20

Barr, Michael HSP subcategories of Eilenberg-Moore algebras. (English summary) **2004c:18006**
— (*with* Burgess, W. D.; Raphael, R.) Ring epimorphisms and $C(X)$. (English summary) **2004f:54018**
Burgess, W. D. *see* **Barr, Michael et al., 2004f:54018**
Buşneag, Dumitru (*with* Piciu, Dana) Injective objects in the BL-algebras category. I. (English summary)
Kopylov, Ya. A. (*with* Kuz′minov, V. I.) Exactness of the cohomology sequence for a short exact sequence of complexes in a semiabelian category [translated from *Proceedings of the Conference "Geometry and Applications" dedicated to the seventieth birthday of V. A. Toponogov (Russian) (Novosibirsk, 2000)*, 76–83, Ross. Akad. Nauk Sib. Otd. Inst. Mat., Novosibirsk, 2001]. (English summary)
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Richter, Günther[1] A characterization of exponentiable maps in PrTop. (English summary) **2004e:18005**

18A22 Special properties of functors (faithful, full, etc.)

Barkhudaryan, A. Endofunctors of set determined by their object map. (English summary) **2004i:18001**
— (*with* El Bashir, Robert; Trnková, V.) Endofunctors of set and cardinalities. (French summary) **2004g:18001**
El Bashir, Robert *see* **Barkhudaryan, A. et al., 2004g:18001**
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Items with secondary classifications in 18A22

Adámek, Jiří (*with* Sousa, Lurdes) How accessible are categories of algebras? (English summary) **2004g:18007**
— (*with* Porst, Hans-E.) On tree coalgebras and coalgebra presentations. (English summary) **2004j:68118**
Carboni, Aurelio (*with* Janelidze, George) Boolean Galois theories. (English summary) **2004b:18003**
Janelidze, George *see* **Carboni, Aurelio, 2004b:18003**
Porst, Hans-E. *see* **Adámek, Jiří, 2004j:68118**
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18A23 Natural morphisms, dinatural morphisms

Petrić, Zoran G-dinaturality. (English summary) **2004i:18002**

18A25 Functor categories, comma categories

Herzog, Ivo Pure-injective envelopes. (English summary) **2004i:18003**

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Johnstone, Peter *see* **Carboni, Aurelio, 2004m:18003**
McCarthy, Randy *see* **Johnson, Brenda, 2004b:18016** *and* **2004e:18015**
Piriou, Laurent (*with* Schwartz, Lionel) A property of the degree filtration of polynomial functors. (English summary) **2004d:55017**
Schwartz, Lionel *see* **Piriou, Laurent, 2004d:55017**
Słomińska, Jolanta Decompositions of the category of noncommutative sets and Hochschild and cyclic homology. (English summary) **2004f:16011**
Sobral, Maria Manuela *see* **Janelidze, George, 2004c:18002**

18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

Dimitrić, Radoslav M. A note on surjective inverse systems. (English summary) **2004i:18004**
Hosseini, S. N. (*with* Mirhosseinkhani, Gh.) On topological colimit preserving equalizers. (English summary) **2004k:18001**
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Hosseini, S. N. *see* **Mousavi, S. Sh. et al.**
Janelidze, George *see* **Carboni, Aurelio, 2004m:18002**
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Mahmoudi, Mojgan *see* **Karimi Feizabadi, Abolghasem, (2004f:00019)**
Milius, Stefan On colimits in categories of relations. (English summary) **2004e:18003**
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Zahedi, Mohammad M. *see* **Mousavi, S. Sh. et al.**

18A32 Factorization of morphisms, substructures, quotient structures, congruences, amalgams

Castellini, G. (*with* Holgate, D.) A link between two connectedness notions. (English summary) **2004g:18002**
— (*with* Holgate, D.) Closure operator constructions depending on one parameter. (English summary) **2004i:18005**
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Barr, Michael HSP subcategories of Eilenberg-Moore algebras. (English summary) **2004c:18006**

18A35 Categories admitting limits (complete categories), functors preserving limits, completions

Adámek, Jiří (*with* Lawvere, F. William; Rosický, Jiří) Continuous categories revisited. (English summary) **2004e:18002**
Lawvere, F. William *see* **Adámek, Jiřiet al., 2004e:18002**
Rosický, Jiří *see* **Adámek, Jiřiet al., 2004e:18002**
Zhuang, Wa Jin Some researches on the star type partial orders of morphism sets in a category. (Chinese. English and Chinese summaries)

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Claes, V. (*with* Sonck, G.) The quasitopos hull of the construct of closure spaces. (English summary) **2004j:18001**
El Bashir, Robert (*with* Kepka, Tomáš; Němec, Petr) Modules commuting (via Hom) with some colimits. (English summary) **2004i:16002**
Gran, Marino Semi-abelian exact completions. (English summary) **2004d:18009**
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Milius, Stefan On colimits in categories of relations. (English summary) **2004e:18003**
Mirhosseinkhani, Gh. *see* **Hosseini, S. N., 2004k:18001**
Němec, Petr *see* **El Bashir, Robert et al., 2004i:16002**
Sonck, G. *see* **Claes, V., 2004j:18001**

18A40 Adjoint functors (universal constructions, reflective subcategories, Kan extensions, etc.)

Behera, A. (*with* Dash, K. K.) A categorical construction of a complete metric space. (English summary)
— (*with* Dash, K. K.) Homology decomposition of groups. (English summary)
Borceux, Fr. La dualité gauche-droite en théorie des catégories. [Left-right dualty in category theory] (*see* **2004d:00010**)
Bush, M. R. (*with* Leeming, Mark; Walters, R. F. C.) Computing left Kan extensions. (English summary) **2004a:18001**
Carboni, Aurelio (*with* Janelidze, George) Boolean Galois theories. (English summary) **2004b:18003**
— (*with* Janelidze, George) Smash product of pointed objects in lextensive categories. (English summary) **2004m:18002**
Dash, K. K. *see* **Behera, A.**
Dawson, Robert J. MacG. (*with* Paré, Robert; Pronk, Dorette) Adjoining adjoints. (English summary) **2004d:18001**
— (*with* Paré, Robert; Pronk, Dorette) Undecidability of the free adjoint construction. (English summary) **2004g:18003**
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Modoi, Ciprian Equivalences induced by adjoint functors. (English summary) **2004b:18004**
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Shin, Seon Ho Categorical properties of semi-continuous quasi-ordered spaces. (English summary) **2004b:18005**
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Barr, Michael HSP subcategories of Eilenberg-Moore algebras. (English summary) **2004c:18006**
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Castellini, G. (*with* Holgate, D.) Closure operator constructions depending on one parameter. (English summary) **2004i:18005**
Chvalina, Jan (*with* Hošková, Šárka) Abelizations of weakly associative hyperstructures based on their direct squares. (English summary) **2004k:20142**
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18A99 None of the above, but in this section

Pan, Qing Nian Equivalence and extension of (co-)reflexivity and their applications. (Chinese. English and Chinese summaries)

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Biss, Daniel K. Which functor is the projective line? **2004h:14001**
Drozd, Yu. A. On cubic functors. (English summary) **2004a:16031**
Enochs, Edgar E. (*with* García-Rozas, J. R.; Oyonarte, Luis; Jenda, Overtoun M. G.) Conormal morphisms. (English summary) **2004i:20101**
Fleming, Michael (*with* Gunther, Ryan; Rosebrugh, Robert) A database of categories. (English summary) **2004a:68168**
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Oyonarte, Luis *see* **Enochs, Edgar E. et al., 2004i:20101**
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18Bxx Special categories

18B05 Category of sets, characterizations [see also 03–XX]

Gumm, H. Peter (*with* Hughes, Jesse; Schröder, Tobias) Distributivity of categories of coalgebras. (English summary) **2004i:18006**
Hughes, Jesse *see* **Gumm, H. Peter et al., 2004i:18006**
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Items with secondary classifications in 18B05

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— (*with* El Bashir, Robert; Trnková, V.) Endofunctors of set and cardinalities. (French summary) **2004g:18001**
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Rosebrugh, Robert *see* **Lawvere, F. William, 2004b:03094**
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18B10 Category of relations, additive relations

Milius, Stefan On colimits in categories of relations. (English summary) **2004e:18003**

Items with secondary classifications in 18B10

Dăianu, Dan Structure of additive a-categories. (English summary)

18B15 Embedding theorems, universal categories [see also 18E20]

Freyd, Peter J. Abelian categories.

Items with secondary classifications in 18B15

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18B20 Categories of machines, automata, operative categories [see also 03D05, 68Qxx]

Items with secondary classifications in 18B20

Cabral Morais, Manuel *see* **Mateus, Paulo et al., 2004i:68122**
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Hines, P. M. A categorical framework for finite state machines. (English summary) **2004c:68074**
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Menezes, P. Blauth (*with* Costa, Simone A.; Machado, Júlio P.; Ramos, Jaime) Nautilus: a concurrent anticipatory programming language. (English summary) (*see* **2004d:00014**)
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Yao, Jia-Yan Some properties of Ising automata. (English summary) **2004k:68116**

18B25 Topoi [see also 03G30]

Banaschewski, Bernhard (*with* Ebrahimi, M. Mehdi; Mahmoudi, Mojgan) On the normal completion of a Boolean algebra. (English summary) **2004a:18002**
Bénabou, Jean (*with* Streicher, Thomas) Partial toposes. (English summary) **2004h:18002**
Carboni, Aurelio (*with* Johnstone, Peter) Corrigenda for: "Connected limits, familial representability and Artin glueing" [Math. Structures Comput. Sci. **5** (1995), no. 4, 441–459]. (English summary) **2004m:18003**
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Dubuc, Eduardo J. Localic Galois theory. (English summary) **2004b:18006**
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— *see also* **Banaschewski, Bernhard et al., 2004a:18002**
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Mahmoudi, Mojgan *see* **Banaschewski, Bernhard et al., 2004a:18002** *and* **Ebrahimi, M. Mehdi, 2004b:18007**
Mousavi, S. Sh. *see* **Hosseini, N., 2004e:18004**
Sonck, G. *see* **Claes, V., 2004j:18001**
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Hofstra, Pieter (*with* van Oosten, Jaap) Ordered partial combinatory algebras. **2004e:03103**
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Mazzola, Guerino ★ The topos of music. (English summary) **2004a:00013**
(Müller, Stefan[3]) *see* **Mazzola, Guerino, 2004a:00013**
Nauwelaerts, Mark An alternative description of the topological universe hull of (quasi-)uniform spaces using approach theory. (English summary) **2004a:54034**
Niefield, Susan B. Implementing finite structures in Mathematica via a skeletal topos of finite sets. (English summary) **2004a:68169**
van Oosten, Jaap *see* **Hofstra, Pieter, 2004e:03103**
Picado, Jorge (*with* Pultr, Aleš; Tozzi, Anna) Locales.
Pultr, Aleš *see* **Picado, Jorge et al.**
Tozzi, Anna *see* **Picado, Jorge et al.**

18B30 Categories of topological spaces and continuous mappings [see also 54–XX]

Brümmer, Guillaume C. L. (*with* Sioen, M.) Functorial approach structures. (English summary) **2004m:18004**
Cagliari, Francesca (*with* Mantovani, Sandra) T_0-reflection and injective hulls of fibre spaces. (English summary) **2004f:18002**
Clementino, Maria Manuel (*with* Tholen, Walter) Metric, topology and multicategory—a common approach. (English summary) **2004a:18003**
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Mantovani, Sandra *see* **Cagliari, Francesca, 2004f:18002**
Menni, Matías (*with* Simpson, Alex) Topological and limit-space subcategories of countably-based equilogical spaces. (English summary) **2004a:18004**
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Ball, Richard N. (*with* Walters-Wayland, Joanne) C- and C^*-quotients in pointfree topology. (English summary) **2004a:06007**
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Ebrahimi, M. Mehdi *see* **Golzy, Mojgan**, **2004h:06011**
Fang, Jin-Xuan (*with* Huang, Huan) Categories isomorphic to LFNS. (English summary) **2004e:54004**
Gevorkyan, P. S. Movable categories. (English summary) **2004b:55018**
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Janelidze, George (*with* Sobral, Maria Manuela) Finite preorders and topological descent. II. Étale descent. (English summary) **2004c:18001**
— (*with* Sobral, Maria Manuela) Finite preorders and topological descent. I. (English summary) **2004c:18002**
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Lemin, A. Yu. Spectral decomposition of ultrametric spaces and topos theory. (English summary) **2004k:54040**
— (*with* Lemin, Vladimir) On metrically universal ultrametric spaces LV_τ and LW_τ. (English summary) **2004c:54026**
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Lowen, Robert (*with* Sioen, M.; Vaughan, David Jon) Completing quasi-metric spaces—an alternative approach. (English summary) **2004b:54038**
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Mantovani, Sandra *see* **Cagliari, Francesca**, **2004f:18015**
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Sioen, M. *see* **Lowen, Robert et al.**, **2004b:54038**
Sleziak, Martin Subspaces of pseudoradial spaces. (English summary) **2004k:54014**
Sobral, Maria Manuela *see* **Janelidze, George**, **2004c:18001** *and* **2004c:18002**
Šostak, Alexander P. On some fuzzy categories related to category L-TOP of L-topological spaces.
Spaliński, Jan Stratified model categories. (English summary) **2004j:55016**
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Vaughan, David Jon *see* **Lowen, Robert et al.**, **2004b:54038**
Waliszewski, Włodzimierz Subcartesian spaces as $\mathbb{K}$-differential spaces. (English and Polish summaries) **2004m:58009**
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18B35 Preorders, orders and lattices (viewed as categories) [see also 06–XX]

Aerts, Diederik (*with* Lowen-Colebunders, Eva; De Groot-Van der Voorde, A.; Van Steirteghem, B.) On the amnestic modification of the category of state property systems. (English summary) **2004g:18005**
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18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [see also 20Axx, 20L05, 20Mxx]

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Ivan, Mihai General properties of the symmetric groupoid of a finite set. (English summary)
Jun, Young Bae Roughness of gamma-subsemigroups/ideals in gamma-semigroups. (English summary)
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Dikranjan, Dikran (*with* Milan, Chiara) Dualities of locally compact modules over the rationals. (English summary) **2004d:16079**
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18Cxx Categories and theories

18C05 Equational categories [see also 03C05, 08C05]

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Coja-Oghlan, Amin (*with* Stehr, Mark-Oliver) Revisiting the algebra of Petri net processes under the collective token philosophy. (English summary) **2004m:68177**

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Mahmoudi, Mojgan *see* **Ebrahimi, M. Mehdi**, **2004b:18007**

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18C10 Theories (e.g. algebraic theories), structure, and semantics [see also 03G30]

Adámek, Jiří (*with* Lawvere, F. William; Rosický, Jiří) On the duality between varieties and algebraic theories. (English summary) **2004b:18010**

Lawvere, F. William *see* **Adámek, Jiřiet al.**, **2004b:18010**

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Aczel, Peter Algebras and coalgebras. (*see* **2004d:68001**)

Alessi, Fabio (*with* Baldan, Paolo; Honsell, Furio) A category of compositional domain-models for separable Stone spaces. (English summary) **2004g:68102**

Baldan, Paolo *see* **Alessi, Fabio et al.**, **2004g:68102**

Cîrstea, Corina A coalgebraic equational approach to specifying observational structures. (English summary) **2004d:68091**

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Grandis, Marco (*with* Mauri, Luca) Cubical sets and their site. (English summary) **2004e:18018**

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18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [see also 18Gxx]

Aczel, Peter (*with* Adámek, Jiří; Milius, Stefan; Velebil, Jiří) Infinite trees and completely iterative theories: a coalgebraic view. (English summary) **2004b:18011**

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Beck, Jonathan Mock Triples, algebras and cohomology. **2004h:18003**

Bucalo, Anna (*with* Führmann, Carsten; Simpson, Alex) An equational notion of lifting monad. (English summary) **2004b:18012**

Führmann, Carsten *see* **Bucalo, Anna et al.**, **2004b:18012**

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Zaitov, A. A. On categorical properties of the functor of order-preserving functionals. (English summary) **2004m:54015**

18C20 Algebras and Kleisli categories associated with monads

Barr, Michael HSP subcategories of Eilenberg-Moore algebras. (English summary) **2004c:18006**

Clementino, Maria Manuel (*with* Hofmann, Dirk) Topological features of lax algebras. (English summary) **2004e:18006**

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Tholen, Walter *see* **Clementino, Maria Manuel et al.**, **2004j:18004**

Zarichnyi, M. M. *see* **Guran, I.**, **2004c:18007**

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Bezrukavnikov, Roman (*with* Braverman, Alexander; Positselskii, Leonid) Gluing of abelian categories and differential operators on the basic affine space. (English summary) **2004b:16038**

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Lack, Stephen *see* **Cockett, J. R. B.**, **2004b:18009**

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Resende, Pedro (*with* Vickers, Steven) Localic sup-lattices and tropological systems. (English summary) **2004i:68130**

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18C30 Sketches and generalizations

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18C35 Accessible and locally presentable categories

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Bauer, Friedrich W. (*with* Datuashvili, Tamar) Closed model category structures on the category of chain functors. (English summary) **2004f:18004**

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— (*with* Porst, Hans-E.) On tree coalgebras and coalgebra presentations. (English summary) **2004j:68118**

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18C50 Categorical semantics of formal languages [see also 68Q55, 68Q65]

Adámek, Jiří (*with* Porst, Hans-E.) On varieties and covarieties in a category. (English summary) **2004f:18005**

— (*with* Milius, Stefan; Velebil, Jiří) Free iterative theories: a coalgebraic view. (English summary) **2004f:18006**

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De Marchi, Federico *see* **Ghani, Neil et al.**, **2004f:18008**

Ghani, Neil (*with* Lüth, Christoph; De Marchi, Federico; Power, John) Dualising initial algebras. (English summary) **2004f:18008**

Lüth, Christoph *see* **Ghani, Neil et al.**, **2004f:18008**

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Plotkin, Gordon (*with* Power, John) Algebraic operations and generic effects. (English summary) **2004e:18007**

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Awodey, Steven (*with* Hughes, Jesse) Modal operators and the formal dual of Birkhoff's completeness theorem. (English summary) **2004e:68061**

Backhouse, Roland Galois connections and fixed point calculus. (English summary) (*see* **2004d:68001**)

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Führmann, Carsten (*with* Thielecke, Hayo) On the call-by-value CPS transform and its semantics. (English summary) **2004i:68129**
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Hildebrandt, Thomas T. Towards categorical models for fairness: fully abstract presheaf semantics of SCCS with finite delay. (English summary) **2004e:68072**
Hughes, Jesse *see* **Awodey, Steven**, **2004e:68061**
Hyland, J. Martin E. (*with* Schalk, Andrea) Glueing and orthogonality for models of linear logic. (English summary) **2004a:03070**
Jacobs, Bart Exercises in coalgebraic specification. (English summary) (*see* **2004d:68001**)
— (*with* Poll, Erik) Coalgebras and monads in the semantics of Java. (English summary) **2004d:68083**
Kurz, Alexander Logics admitting final semantics. (English summary) **2004a:03034**
Lambán Pardo, Laureano A. (*with* Pascual, Vico; Rubio García, Julio Jesús) An object-oriented interpretation of the EAT system. (English summary) **2004i:68143**
Levy, Paul Blain (*with* Power, John; Thielecke, Hayo) Modelling environments in call-by-value programming languages. (English summary) **2004f:68087**
Matthes, Ralph Tarski's fixed-point theorem and lambda calculi with monotone inductive types. (English summary) **2004b:03028**
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Pratt, Vaughan R. Event-state duality: the enriched case. (English summary) **2004m:68180**
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Tchier, F. Demonic semantics: using monotypes and residuals. (English summary) **2004m:68148**
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Tsuiki, Hideki A domain-theoretic semantics of lax generic functions. (English summary) **2004b:68027**
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18C99 None of the above, but in this section

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Griffing, Gary Composition-representative subsets. (English summary) **2004k:18002**
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18Dxx Categories with structure

18D05 Double categories, 2-categories, bicategories and generalizations

Brown, Ronald (*with* İçen, İlhan) Towards a 2-dimensional notion of holonomy. (English summary) **2004f:18009**
Bullejos, M. (*with* Cegarra, Antonio M.) On the geometry of 2-categories and their classifying spaces. (English summary) **2004i:18009**
Cegarra, Antonio M. *see* **Bullejos, M.**, **2004i:18009**
Cheng, Eugenia The category of opetopes and the category of opetopic sets. (English summary) **2004i:18010**
Crans, Sjoerd E. Localizations of transfors. (English summary) **2004d:18003**
Dawson, Robert J. MacG. (*with* Paré, Robert; Pronk, Dorette) Free extensions of double categories. (French summary) **2004k:18003**
Day, Brian J. (*with* McCrudden, Paddy; Street, Ross H.) Dualizations and antipodes. (English summary) **2004b:18013**
Hermida, Claudio (*with* Mateus, Paulo) Paracategories. I. Internal paracategories and saturated partial algebras. (English summary) **2004i:18011**
Hyland, J. Martin E. (*with* Power, John) Pseudo-commutative monads and pseudo-closed 2-categories. (English summary) **2004b:18014**
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Lyubashenko, Volodymyr Category of A_∞-categories. (English summary) **2004e:18008**
Mateus, Paulo *see* **Hermida, Claudio**, **2004i:18011**
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Métayer, François Resolutions by polygraphs. (English summary) **2004e:18009**
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Street, Ross H. Weak omega-categories. (English summary) **2004c:18008**
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Brightwell, Mark (*with* Turner, Paul) Modular functors in homotopy quantum field theory and tortile structures. (English summary) **2004i:57034**
Brouwer, R. M. A bicategorical approach to Morita equivalence for von Neumann algebras. (English summary) **2004b:46085**
Dawson, Robert J. MacG. (*with* Paré, Robert; Pronk, Dorette) Adjoining adjoints. (English summary) **2004d:18001**
— (*with* Paré, Robert; Pronk, Dorette) Undecidability of the free adjoint construction. (English summary) **2004g:18003**
Day, Brian J. (*with* Street, Ross H.) Lax monoids, pseudo-operads, and convolution. (English summary) **2004c:18011**
Gaucher, Philippe The branching nerve of HDA and the Kan condition. (English summary) **2004b:55026**
Mackenzie, K. C. H. On certain canonical diffeomorphisms in symplectic and Poisson geometry. (English summary) **2004e:53116**
Melliès, Paul-André Double categories: a modular model of multiplicative linear logic. (English summary) **2004h:03124**
Oziewicz, Zbigniew Operad of graphs, convolution and quasi Hopf algebra. (English summary) **2004c:18005**
Paré, Robert *see* **Dawson, Robert J. MacG. et al.**, **2004d:18001** *and* **2004g:18003**
Pfeiffer, Hendryk Higher gauge theory and a non-abelian generalization of 2-form electrodynamics. (English summary) **2004m:81170**
Pronk, Dorette *see* **Dawson, Robert J. MacG. et al.**, **2004d:18001** *and* **2004g:18003**
Street, Ross H. *see* **Day, Brian J.**, **2004c:18011**
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Vitale, Enrico M. A Picard-Brauer exact sequence of categorical groups. (English summary) **2004c:14032**

18D10 Monoidal categories (= multiplicative categories), symmetric monoidal categories, braided categories [see also 19D23]

Balteanu, C. (*with* Fiedorowicz, Z.; Schwänzl, R.; Vogt, Rainer M.) Iterated monoidal categories. (English summary) **2004h:18004**
Beggs, E. J. Making non-trivially associated tensor categories from left coset representatives. (English summary) **2004e:18010**
Bespalov, Yu. N. (*with* Drabant, Bernhard) Report on cross product bialgebras in braided categories. (English summary) **2004c:18009**
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18D25 Strong functors, strong adjunctions

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18D30 Fibered categories

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18Exx Abelian categories

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18E10 Exact categories, abelian categories

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18E15 Grothendieck categories

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18E25 Derived functors and satellites

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18E30 Derived categories, triangulated categories

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18Fxx Categories and geometry

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18G05 Projectives and injectives [see also 13C10, 13C11, 16D40, 16D50]

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18G10 Resolutions; derived functors [see also 13D02, 16E05, 18E25]

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18G15 Ext and Tor, generalizations, Künneth formula [see also 55U25]

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18G20 Homological dimension [see also 13D05, 16E10]

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18G25 Relative homological algebra, projective classes

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18G30 Simplicial sets, simplicial objects (in a category) [see also 55U10]

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18G35 Chain complexes [see also 18E30, 55U15]

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18G40 Spectral sequences, hypercohomology [see also 55Txx]

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Teleman, Constantin Some Hodge theory from Lie algebras. **2004e:17017**
Troesch, Alain Une formule pour les extensions de foncteurs composés. (English summary) [A formula for extensions of composite functors] **2004i:18017**

18G50 Nonabelian homological algebra

Inassaridze, Hvedri Higher non-abelian cohomology of groups. (English summary) **2004a:18012**
López López, M. P. *see* **R.-Grandjeán L.-Valcárcel, Alfredo, 2004f:18016**
Paoli, Simona (Co)homology of crossed modules with coefficients in a π_1-module. (English summary) **2004h:18015**
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Case, Adam (*with* Snaith, Victor P.) Explicit Brauer induction and the Glauberman correspondence. (English summary) **2004c:20016**
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Grillo, Sergio Daniel Twisting of homogeneous algebras. (English summary) **2004m:16008**
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Moret-Bailly, Laurent Sur la R-équivalence de torseurs sous un groupe fini. (English and French summaries) [R-equivalence of torsors under a finite group] **2004b:14034**
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18G55 Homotopical algebra

Cheng, Yue Zhao *see* **Yi, Jian Xin**
Cisinski, Denis-Charles Images directes cohomologiques dans les catégories de modèles. (French summary) [Cohomological direct images in model categories] **2004k:18009**

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18G60 Other (co)homology theories [see also 19D55, 46L80, 58J20, 58J22]

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Khovanov, Mikhail Patterns in knot cohomology. I. (English summary) **2004m:57022**
Lambe, Larry A. (*with* Seiler, Werner M.) Differential equations, Spencer cohomology, and computing resolutions. (English summary) **2004b:58024**
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Johnson, Brenda (*with* McCarthy, Randy) A classification of degree n functors. I. (French summary) **2004b:18016**
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Pan, FuZheng Homological algebraic structure of fuzzy modules. (English summary) **2004h:16004**
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Simpson, Carlos Algebraic aspects of higher nonabelian Hodge theory. **2004m:14010**

19–XX K-theory [see also 16E20, 18F25]

19–01 Instructional exposition (textbooks, tutorial papers, etc.)

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19–02 Research exposition (monographs, survey articles)

Rognes, John Vidunderlige nye ringer. (Norwegian summary) [Brave new rings] **2004i:19001**

19–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 19–06

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Items listed otherwise than by author

Special Issue:

In honor of Hyman Bass on his seventieth birthday, Part I ★ Special issue in honor of Hyman Bass on his seventieth birthday. Part I.

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19Axx Grothendieck groups and K_0 [see also 13D15, 18F30]

Items with secondary classifications in 19Axx

Kuku, Aderemi O. Classical algebraic K-theory: the functors K_0, K_1, K_2. **2004k:19001**

19A13 Stability for projective modules [see also 13C10]

Chu, Cheng-hao *see* **Song, Guang-tian et al., 2004d:19001**

Song, Guang-tian (*with* Chu, Cheng-hao; Zhu, Min-xian) Regularly stable rings and stable isomorphism of modules. (English and Chinese summaries) **2004d:19001**

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19A22 Frobenius induction, Burnside and representation rings

Oda, Fumihito A note on the Brauer quotients of a crossed Burnside functor. (English summary) **2004m:19001**

Items with secondary classifications in 19A22

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— Hochschild constructions for Green functors. (English summary) **2004j:16011**

19A31 K_0 of group rings and orders

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Bartels, Arthur C. Squeezing and higher algebraic K-theory. (English summary) **2004f:19006**

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Roushon, S. K. K-theory of virtually poly-surface groups. (English summary) **2004g:19001**

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19A49 K_0 of other rings

Items with secondary classifications in 19A49

Facchini, Alberto (*with* Halter-Koch, Franz) Projective modules and divisor homomorphisms. (English summary) **2004j:16007**

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Ouyang, Bai Yu (*with* Xu, Kejian; Tong, Wen Ting) A note on the Morita-like invariant property of Grothendieck groups of rings. (English summary)

Růžička, Pavel A distributive semilattice not isomorphic to the maximal semilattice quotient of the positive cone of any dimension group. (English summary) **2004f:06003**

Tong, Wen Ting *see* **Ouyang, Bai Yu et al.**

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Vinsonhaler, Charles *see* **O'Meara, K. C., 2004b:20080**

19Bxx Whitehead groups and K_1

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19B10 Stable range conditions

Chen, Huan Yin (*with* Li, Fu-an) Exchange rings satisfying the n-stable range condition. II. (English summary) **2004b:19001**

— Extensions of rings with many units. (English summary) **2004d:19002**

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Items with secondary classifications in 19B10

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— On m-fold stable rings. (English and Chinese summaries) **2004g:16008**

Nakashima, Toshiki Geometric crystals, Schubert varieties and crystal bases. (Japanese)

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Sudo, Takahiro The structure of group C^*-algebras of the generalized Dixmier groups. (English summary) **2004i:22006**

19B28 K_1 of group rings and orders [see also 57Q10]

Roushon, S. K. K-theory of virtually poly-surface groups. (English summary) **2004g:19001**

Items with secondary classifications in 19B28

Bartels, Arthur C. Squeezing and higher algebraic K-theory. (English summary) **2004f:19006**

— On the domain of the assembly map in algebraic K-theory. (English summary) **2004h:19002**

— (*with* Farrell, F. Thomas; Jones, Lowell Edwin; Reich, Holger) On the isomorphism conjecture in algebraic K-theory. (English summary) **2004m:19004**

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— (*with* Linnell, Peter A.) K-theory of solvable groups. (English summary) **2004d:57029**

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Hambleton, Ian (*with* Pedersen, Erik K.) Identifying assembly maps in K- and L-theory. (English summary) **2004j:19001**

Huber, Annette (*with* Kings, Guido) Equivariant Bloch-Kato conjecture and non-abelian Iwasawa main conjecture. (English summary) **2004c:11113**

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19Cxx Steinberg groups and K_2

Items with secondary classifications in 19Cxx

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19C09 Central extensions and Schur multipliers

Arias, D. (*with* Ladra González, Manuel; R.-Grandjeán L.-Valcárcel, Alfredo) Universal central extensions of precrossed modules and Milnor's relative K_2. (English summary) **2004h:19001**
Ladra González, Manuel *see* **Arias, D. et al., 2004h:19001**
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Bacon, Michael R. (*with* Kappe, Luise-Charlotte) On capable p-groups of nilpotency class two. (English summary) **2004j:20036**
Blanc, David (*with* Peschke, Georg) The plus construction, Postnikov towers and universal central module extensions. (English summary) **2004i:55013**
Brylinski, Jean-Luc (*with* Deligne, Pierre) Central extensions of reductive groups by $\mathbf{K}_2$. **2004a:20049**
Deligne, Pierre *see* **Brylinski, Jean-Luc, 2004a:20049**
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19C20 Symbols, presentations and stability of K_2

Pablos Romo, Fernando A note on Steinberg symbols on algebraic curves. (English summary) **2004c:19002**
Xu, Kejian Neither $G_9(\mathbf{Q})$ nor $G_{11}(\mathbf{Q})$ is a subgroup of $K_2(\mathbf{Q})$. (English summary) **2004b:19002**

19C30 K_2 and the Brauer group

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Smet, A. (*with* Verschoren, A.) Mayer-Vietoris sequences for Krull domains. (English summary) **2004d:16037**
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19C99 None of the above, but in this section

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Calmès, Baptiste Le groupe SK_2 d'une algèbre de biquaternions. (English and French summaries) [The group SK_2 of a biquaternion algebra] **2004f:19001**
Guo, Xue-jun (*with* Qin, Hourong; Song, Guang-tian) Computing the tame kernel of $\mathbb{Q}(\zeta_8)$. (English summary) **2004c:19003**
— (*with* Qin, Hourong) A remark on the positivity of K_2. (English summary) **2004i:19002**
Mazzoleni, Amedeo Un théorème sur $H_2(\mathrm{GL}(A);\mathbb{Z})$. (French summary) [A theorem about $H_2(\mathrm{GL}(A);\mathbb{Z})$] **2004i:19003**
Nan, Jizhu (*with* Tian, Zide) The K_2-groups over finite commutative rings. (English summary) **2004b:19004**
Qin, Hourong *see* **Guo, Xue-jun et al., 2004c:19003** *and* **2004i:19002**
Song, Guang-tian *see* **Guo, Xue-jun et al., 2004c:19003**
Tian, Zide *see* **Nan, Jizhu, 2004b:19004**

19Dxx Higher algebraic K-theory

19D06 Q- and plus-constructions

Bruns, Winfried (*with* Gubeladze, Joseph) Higher polyhedral K-groups. (English summary) **2004f:19002**
Gubeladze, Joseph *see* **Bruns, Winfried, 2004f:19002**

Items with secondary classifications in 19D06

Anton, Marian F. An elementary invariant problem and general linear group cohomology restricted to the diagonal subgroup. (English summary) **2004c:57061**
Blanc, David (*with* Peschke, Georg) The plus construction, Postnikov towers and universal central module extensions. (English summary) **2004i:55013**
Gillet, Henri (*with* Grayson, Daniel R.) Erratum to: "The loop space of the Q-construction" [Illinois J. Math. **31** (1987), no. 4, 574–597; MR 89h:18012]. (English summary) **2004h:18012**
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19D10 Algebraic K-theory of spaces

Dwyer, W. (*with* Weiss, Michael S.; Williams, E. Bruce) A parametrized index theorem for the algebraic K-theory Euler class. **2004d:19004**
Igusa, Kiyoshi ★ Higher Franz-Reidemeister torsion. **2004f:19003**
Rognes, John The smooth Whitehead spectrum of a point at odd regular primes. (English summary) **2004f:19004**
Sagave, Steffen On the algebraic K-theory of model categories. (English summary) **2004m:19002**
Scărlătescu-Murea, Silvia A generalization of Serre-Swan theorem in the non-Archimedean case. (English summary) **2004k:19002**
Weiss, Michael S. *see* **Dwyer, W. et al., 2004d:19004**
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Items with secondary classifications in 19D10

Burns, David J. (*with* Köck, Bernhard; Snaith, Victor P.) Refined and l-adic Euler characteristics of nearly perfect complexes. (English summary) **2004k:16014**
Köck, Bernhard *see* **Burns, David J. et al., 2004k:16014**
Pappacena, Christopher J. The BGQ spectral sequence for noncommutative spaces. (English summary) **2004i:18016**
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19D23 Symmetric monoidal categories [see also 18D10]

Davydov, Alekseĭ A. K-theory of braided monoidal categories. (English summary) **2004f:19005**

19D35 Negative K-theory, NK and Nil

Kuku, Aderemi O. (*with* Tang, Guo Ping) Higher K-theory of group-rings of virtually infinite cyclic groups. (English summary) **2004a:19001**
Tang, Guo Ping *see* **Kuku, Aderemi O., 2004a:19001**

Items with secondary classifications in 19D35

Roushon, S. K. K-theory of virtually poly-surface groups. (English summary) **2004g:19001**

19D45 Higher symbols, Milnor K-theory

Cathelineau, Jean-Louis Projective configurations, homology of orthogonal groups, and Milnor K-theory. (English summary) **2004m:19003**
Hesselholt, Lars Algebraic K-theory and trace invariants. (English summary) **2004d:19005**

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Bloch, Spencer J. (*with* Esnault, Hélène) An additive version of higher Chow groups. (English and French summaries) **2004c:14035**
Cartier, Pierre Fonctions polylogarithmes, nombres polyzêtas et groupes pro-unipotents. (French summary) [Polylogarithm functions, polyzeta numbers and pro-unipotent groups] **2004i:19005**
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19E08 K-theory of schemes [see also 14C35]

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19Fxx K-theory in number theory [see also 11R70, 11S70]

19F05 Generalized class field theory [see also 11G45]

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19G12 Witt groups of rings [see also 11E81]

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19Jxx Obstructions from topology

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19Kxx K-theory and operator algebras [See mainly 46L80, and also 46M20]

19K14 K_0 as an ordered group, traces

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19K56 Index theory [see also 58J20, 58J22]

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19Lxx Topological K-theory [see also 55N15, 55R50, 55S25]

19L10 Riemann-Roch theorems, Chern characters

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19L20 J-homomorphism, Adams operations [see also 55Q50]

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Önder, Turgut Orders of elements of equivariant J-groups of complex projective spaces. (English summary) **2004i:55020**

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19L41 Connective K-theory, cobordism [see also 55N22]

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19L64 Computations, geometric applications

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19L99 None of the above, but in this section

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Ruan, Yongbin Stringy orbifolds. **2004e:53136**

19M05 Miscellaneous applications of K-theory

Items with secondary classifications in 19M05

Boyle, Mike Positive K-theory and symbolic dynamics. (English summary) **2004b:37013**

Gómez, Ricardo Positive K-theory for finitary isomorphisms of Markov chains. (English summary) **2004k:37020**

Kasparov, G. G. (*with* Skandalis, Georges) Groups acting properly on "bolic" spaces and the Novikov conjecture. (English summary) **2004j:58023**

Ruan, Yongbin Stringy geometry and topology of orbifolds. **2004b:32051**

Skandalis, Georges *see* **Kasparov, G. G.**, **2004j:58023**

20–XX Group theory and generalizations

20–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 20–00

(Mikhalëv, A. V.) *see* **Handbook: Algebra**, **2004c:00001**
(Pilz, Günter F.) *see* **Handbook: Algebra**, **2004c:00001**

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Handbook:
Algebra ★ The concise handbook of algebra. **2004c:00001**

20–01 Instructional exposition (textbooks, tutorial papers, etc.)

Geck, Meinolf ★ An introduction to algebraic geometry and algebraic groups. **2004m:20001**
Kurzweil, Hans (*with* Stellmacher, Bernd) ★ The theory of finite groups. **2004h:20001**
Stellmacher, Bernd *see* **Kurzweil, Hans**, **2004h:20001**

Items with secondary classifications in 20–01

Bröcker, Theodor ★ Lineare Algebra und analytische Geometrie. (German) [Linear algebra and analytical geometry]
Gilbert, William J. (*with* Nicholson, W. Keith) ★ Modern algebra with applications. **2004g:00003**
Lam, Kai S. ★ Topics in contemporary mathematical physics. **2004i:58001**
Nicholson, W. Keith *see* **Gilbert, William J.**, **2004g:00003**
(Retakh, Alexander) *see* **Vinberg, È. B.**, **2004h:00001**
Robinson, Derek John Scott ★ An introduction to abstract algebra. **2004b:00001**
Snaith, Victor P. ★ Groups, rings and Galois theory. **2004i:12001**
Taylor, Joseph L. ★ Several complex variables with connections to algebraic geometry and Lie groups. (English summary) **2004b:32001**
Vinberg, È. B. ★ A course in algebra. **2004h:00001**

20–02 Research exposition (monographs, survey articles)

Beidleman, James C. (*with* Heineken, Hermann) A survey of mutually and totally permutable products in infinite groups. **2004b:20001**
Berrick, A. J. A topologist's view of perfect and acyclic groups. **2004c:20001**
Fine, Benjamin (*with* Rosenberger, Gerhard) Some open problems in infinite group theory. (English summary) **2004h:20002**
Heineken, Hermann *see* **Beidleman, James C.**, **2004b:20001**
(Khukhro, Evgenii I.) *see* **Kourovka notebook**, **2004f:20001a** *and* **2004f:20001b**
Malinowska, Izabela *p*-automorphisms of finite *p*-groups: problems and questions. (English summary) (*see* **2004k:20001**)
(Mazurov, Viktor Danilovich) *see* **Kourovka notebook**, **2004f:20001a** *and* **2004f:20001b**
Robinson, Derek John Scott Finite groups in which normality or permutability is transitive. (English summary) (*see* **2004k:20001**)
Rosenberger, Gerhard *see* **Fine, Benjamin**, **2004h:20002**

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Kourovka notebook ★ The Kourovka notebook. **2004f:20001a**
— ★ Коуровская тетрадь. (Russian) [The Kourovka notebook] **2004f:20001b**
Problems:
Group theory ★ The Kourovka notebook. **2004f:20001a**
— ★ Коуровская тетрадь. (Russian) [The Kourovka notebook] **2004f:20001b**

Items with secondary classifications in 20–02

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Howie, John M. Semigroups, past, present and future. **2004i:20123**
Pyber, László Old groups can learn new tricks. (English summary) **2004f:20053**

20–03 Historical (must also be assigned at least one classification number from Section 01)

Arnold, David M. International conferences on abelian group theory: the first forty years.
Fomin, A. A. Abelian groups in Russia.
Fuchs, László[1] Abelian groups in Hungary.
Göbel, Rüdiger Remarks about the history of abelian groups in England and Germany.
(Łoś, Jerzy) *see* **Simson, Daniel**
Reid, J. D. Mid-century in Seattle.
Salce, Luigi Abelian group theory in Italy.
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Walker, Elbert A. Abelian groups at New Mexico State University.

Items with secondary classifications in 20–03

Alyab'eva, V. G. Tactical configurations and finite groups (19th–20th centuries). (*see* **2004j:01005**)
(Baer, Reinhold) *see* **Fuchs, László[1]**, **2004j:01021** *and* **Gruenberg, K. W.**, **2004j:01024**
Emaldi, M. (*with* Zacher, Giovanni) Giovanni Frattini (1852–1925), mathematician. (Italian) (*see* **2004k:20001**)
(Frattini, Giovanni) *see* **Emaldi, M.**, (**2004k:20001**)
Fuchs, László[1] Reinhold Baer and his influence on the theory of abelian groups. (English summary) **2004j:01021**
Fukaya, Kenji On Mikhail Gromov winning the Kyoto Award. (Japanese) **2004i:01021**
(Gromov, Mikhael L.) *see* **Fukaya, Kenji**, **2004i:01021**
Gruenberg, K. W. Reinhold Baer. **2004j:01024**
(Joseph, Anthony) *see* **Studies in memory of Issai Schur**, **2004a:20003**
(Melnikov, Anna) *see* **Studies in memory of Issai Schur**, **2004a:20003**
Meo, M. The mathematical life of Cauchy's group theorem. (English and French summaries) **2004m:01021**
Newell, Martin L. The Baer school—a personal view. (*see* **2004k:20001**)
(Rentschler, Rudolf) *see* **Studies in memory of Issai Schur**, **2004a:20003**
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Serre, Jean-Pierre ★ Exposés de séminaires (1950-1999). (French) [Seminar papers (1950–1999)] **2004a:01043**
Stammbach, Urs Die Zürcher Vorlesung von Schur über Darstellungstheorie. (German summary) [The Zurich lecture of Schur on representation theory] **2004h:01020**
Zacher, Giovanni *see* **Emaldi, M.**, (**2004k:20001**)

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Biography:
Baer, Reinhold *see* **Gruenberg, K. W.**, **2004j:01024**
Chevaleret ★ Studies in memory of Issai Schur. **2004a:20003**
Memorial Volume:
Schur, Issai ★ Studies in memory of Issai Schur. **2004a:20003**
Progress in Mathematics ★ Studies in memory of Issai Schur. **2004a:20003**
Rehovot ★ Studies in memory of Issai Schur. **2004a:20003**
Serre, Jean-Pierre, Exposeś de séminaires *see* **Serre, Jean-Pierre**, **2004a:01043**
Serre, Jean-Pierre, Seminar papers *see* **Serre, Jean-Pierre**, **2004a:01043**
Studies in memory of Issai Schur ★ Studies in memory of Issai Schur. **2004a:20003**
Workshop:
European Community Training and Mobility of Researchers (TMR) Network ★ Studies in memory of Issai Schur. **2004a:20003**
Schur, Issai ★ Studies in memory of Issai Schur. **2004a:20003**

20–04 Explicit machine computation and programs (not the theory of computation or programming)

Eick, Bettina (*with* Ostheimer, Gretchen) On the orbit-stabilizer problem for integral matrix actions of polycyclic groups. (English summary) **2004a:20001**
Kurdachenko, Leonid A. (*with* Polyakov, Mykola Viktorovich) On computational aspects of some problems in group theory. (Ukrainian. English summary)
Ostheimer, Gretchen *see* **Eick, Bettina**, **2004a:20001**
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Items with secondary classifications in 20–04

Brooksbank, Peter A. Constructive recognition of classical groups in their natural representation. (English summary) **2004c:20082**
(Downey, Rodney G.) *see* **Aspects of complexity**, **2004d:68050**
Greuel, Gert-Martin A computer algebra solution to a problem in finite groups. (English summary) **2004k:20038**
Havas, George (*with* Ramsay, Colin) Andrews-Curtis and Todd-Coxeter proof words. (English summary) **2004m:20057**
(Hirschfeldt, Denis R.) *see* **Aspects of complexity**, **2004d:68050**
Holmes, Petra E. (*with* Linton, Stephen A.; Murray, Scott H.) Product replacement in the Monster. (English summary) **2004g:20022**
Ivanyos, Gábor (*with* Magniez, Frédéric; Santha, Miklos) Efficient quantum algorithms for some instances of the non-abelian hidden subgroup problem. (English summary) **2004k:81093**
Kunyavskiĭ, Boris (*with* Plotkin, E. B.; Shklyar, Roman) A strategy for human-computer study of equations and identities in finite groups. (English and Latvian summaries)
Linton, Stephen A. *see* **Holmes, Petra E. et al.**, **2004g:20022**
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Murray, Scott H. *see* **Holmes, Petra E. et al.**, **2004g:20022**
Phillips, J. D. See Otter digging for algebraic pearls. (English summary) **2004g:20090**
Plotkin, E. B. *see* **Kunyavskiĭ, Boris et al.**
Ramsay, Colin *see* **Havas, George**, **2004m:20057**
Santha, Miklos *see* **Ivanyos, Gábor et al.**, **2004k:81093**
Seress, Ákos ★ Permutation group algorithms. **2004c:20008**
Shklyar, Roman *see* **Kunyavskiĭ, Boris et al.**

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Aspects of complexity ★ Aspects of complexity. **2004d:68050**
Kaikoura ★ Aspects of complexity. **2004d:68050**
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20Axx Foundations

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20A15 Applications of logic to group theory

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20Bxx Permutation groups

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Giudici, Michael (*with* Li, Cai Heng; Praeger, Cheryl E.) Analysing finite locally s-arc transitive graphs. (English summary) **2004k:05108**
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Moghaddamfar, Ali Reza (*with* Pournaki, M. R.) Recognition of some symmetric groups by the set of the order of their elements. (English summary) **2004c:20006**
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Bamberg, John (*with* Cairns, Grant; Kilminster, Devin) The crystallographic restriction, permutations, and Goldbach's conjecture. **2004a:11108**
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20B35 Subgroups of symmetric groups

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Li, Xian Hua A note on a result of Thompson. (English and Chinese summaries)
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20B99 None of the above, but in this section

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Fujita, Shinsaku Stereogenicity/astereogenicity as global/local permutation-group symmetry and relevant concepts for restructuring stereochemistry. (English summary)
Gewurz, Daniele A. (*with* Merola, Francesca) Sequences realized as Parker vectors of oligomorphic permutation groups. (English summary) **2004b:05028**
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20Cxx Representation theory of groups [see also 19A22 (for representation rings and Burnside rings)]

20C05 Group rings of finite groups and their modules [see also 16S34]

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Zarelua, A. V. On some lattices associated with a finite group. (Russian. Russian summary) **2004e:20006**

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Bovdi, A. A. (*with* Mihovski, S. V.) Conjugacy classes in group algebras of p-groups. (English summary) **2004f:16042**
Bovdi, V. A. On a filtered multiplication bases of group algebras. II. (English summary) **2004h:16028**
Dimitrova, J. M. Nil ideals of crossed products. (English summary) **2004i:16038**
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El Alaoui, A. The character table for a Hopf algebra arising from the Drinfel′d double. (English summary) **2004f:16065**
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– On group stable commutative separable semisimple subalgebras. (English summary) **2004b:20017**
Johnson, F. E. A. Stable modules and Wall's $D(2)$-problem. (English summary) **2004e:57005**
Kaptanoğlu, Semra Öztürk Betti numbers of fixed point sets and multiplicities of indecomposable summands. (English summary) **2004a:55011**
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Schocker, Manfred Idempotents for derangement numbers. (English summary) **2004e:05018**
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Sobolewska, Kamila *see* **Barannik, L. F., 2004k:20030**
Tahara, Ken-Ichi Survey on dimension subgroup problem. (English summary) **2004h:20047**
Tang, Guo Ping On a problem of Karpilovsky. (English summary) **2004e:16025**
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20C07 Group rings of infinite groups and their modules [see also 16S34]

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— Commutative group algebras of direct sums of σ-summable abelian p-groups. **2004m:20010**
— Sylow p-subgroups of abelian group rings. (English summary) **2004h:20006**
— A note on the isomorphism of modular group algebras of global Warfield abelian groups. (English summary)
Göbel, Rüdiger (*with* May, Warren Lee[2]) Modular group algebras of $\aleph_1$-separable p-groups. (English summary) **2004e:20007**
Kurdachenko, Leonid A. (*with* Otal, Javier) Direct decompositions of Artinian modules related to formations of groups. (English summary)
May, Warren Lee[2] *see* **Göbel, Rüdiger, 2004e:20007**
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Zara, François Generalized reflection groups. II. (English summary) **2004b:20010**
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Dekimpe, Karel Units in group rings of crystallographic groups. (English summary) **2004k:16088**
Dey, Partha Pratim Multiplier theorem revisited. (English summary)
Dimitrova, J. M. (*with* Mihovski, S. V.) Semiprimitive crossed products of groups and simple rings. (English summary) **2004g:16025**
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Elek, Gábor The rank of finitely generated modules over group algebras. (English summary) **2004i:43003**
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Farrell, F. Thomas (*with* Linnell, Peter A.) Whitehead groups and the Bass conjecture. (English summary) **2004h:16006**
Giambruno, Antonino (*with* Polcino Milies, César) Unitary units and skew elements in group algebras. (English summary) **2004g:16032**
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Kurdachenko, Leonid A. (*with* Otal, Javier; Subbotīn, Ī. Ya.) Baer-like decompositions of modules. (English summary) **2004k:20013**
Leinen, Felix (*with* Puglisi, Orazio) Ideals in group algebras of simple locally finite groups of 1-type. (English summary) **2004b:16040**
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Tahara, Ken-Ichi Survey on dimension subgroup problem. (English summary) **2004h:20047**
Tushev, A. V. On solvable groups with proper quotient groups of finite rank. (Russian. English and Ukrainian summaries) **2004h:20046**

20C08 Hecke algebras and their representations

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— On tameness of the Hecke algebras of type B. (English summary) **2004f:20010**
— (*with* Mathas, Andrew) The representation type of Hecke algebras of type B. (English summary) **2004m:20011**
Bonnafé, Cédric (*with* Iancu, Lacrimioara) Left cells in type B_n with unequal parameters. (English summary) **2004j:20007**
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Chen, Cheng Dong (*with* Liu, Jia Chun) On certain distinguished involutions in the Weyl group of type D_n. (English summary) **2004m:20012**
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— (*with* Ostrik, Viktor) From double Hecke algebra to Fourier transform. (English summary) **2004f:20011**
Cox, Anton (*with* Graham, John J.; Martin, Paul Purdon) The blob algebra in positive characteristic. **2004f:20012**
Dieng, Momar (*with* Halverson, Tom; Poladian, Vahe) Character formulas for q-rook monoid algebras. (English summary) **2004c:20012**
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Francis, Andrew Centralizers of Iwahori-Hecke algebras. II. The general case. (English summary) **2004b:20011**
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Guay, Nicolas Projective modules in the category $\mathcal{O}$ for the Cherednik algebra. (English summary) **2004e:20009**
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Arad, Zvi (*with* Erez, Y.; Muzychuk, Mikhail) On even generalized table algebras. (English summary) **2004c:05217**
Ari, Kamil A different characterization of $U_1(\mathbf{Z}C_8)$. (English summary) **2004j:16034**
Erez, Y. *see* **Arad, Zvi et al., 2004c:05217**
Lubotzky, Alexander *see* **Abért, Miklós et al., 2004k:20047**
Muzychuk, Mikhail *see* **Arad, Zvi et al., 2004c:05217**
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20Dxx Abstract finite groups

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Kurzweil, Hans (*with* Stellmacher, Bernd) ★ The theory of finite groups. **2004h:20001**
Robinson, Derek John Scott Finite groups in which normality or permutability is transitive. (English summary) (*see* **2004k:20001**)
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20D05 Classification of simple and nonsolvable groups

Aschbacher, Michael The status of the classification of the finite simple groups.
Formanek, Edward The classification of finite simple groups. (*see* **2004g:00015**)
Harada, Koichiro Accomplishments and problems of finite group theory [translation of Sūgaku **53** (2001), no. 1, 46–61]. (*see* **2004g:00024**)
Khosravi, Amir (*with* Khosravi, Behrooz) A new characterization of some alternating and symmetric groups. (English summary) **2004i:20018**
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Korchagina, Inna On a theorem of P. Fong. (English summary) **2004i:20019**
Kratzer, Mathias (*with* Michler, Gerhard O.; Weller, Michael) Harada group uniquely determined by centralizer of a 2-central involution. (English summary) **2004h:20020**
Meierfrankenfeld, Ulrich (*with* Stellmacher, Bernd; Stroth, Gernot) Finite groups of local characteristic p: an overview. **2004i:20020**
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Parker, Christopher (*with* Parmeggiani, G.; Stellmacher, Bernd) The $P!$-theorem. (English summary) **2004f:20033**
Parmeggiani, G. *see* **Parker, Christopher et al., 2004f:20033**
Stellmacher, Bernd *see* **Parker, Christopher et al., 2004f:20033** *and* **Meierfrankenfeld, Ulrich et al., 2004i:20020**
Stroth, Gernot Some ideas in the classification of the finite simple groups. **2004k:20033**
— *see also* **Meierfrankenfeld, Ulrich et al., 2004i:20020**
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Xu, Rong Hua (*with* Zhao, Ke Qin) Some scalar relations of finite groups. (Chinese. English and Chinese summaries) **2004f:20034**
Zhao, Ke Qin *see* **Xu, Rong Hua, 2004f:20034**

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Costantini, Mauro (*with* Zacher, Giovanni) The finite simple groups have complemented subgroup lattices. (English summary) **2004m:20045**
Gefter, S. L. (*with* Kulagin, Konstantin M.) On dense embeddings of discrete abelian groups into locally compact groups. (English summary) **2004i:20102**
Guralnick, Robert M. (*with* Malle, Gunter; Navarro, Gabriel) Self-normalizing Sylow subgroups. (English summary) **2004m:20043**
Korchagina, Inna (*with* Lyons, Richard; Solomon, Ronald) Toward a characterization of the sporadic groups of Suzuki and Thompson. **2004b:20027**
Kulagin, Konstantin M. *see* **Gefter, S. L., 2004i:20102**
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Malle, Gunter *see* **Guralnick, Robert M. et al., 2004m:20043**
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Praeger, Cheryl E. Overgroups of finite quasiprimitive permutation groups. (English summary) **2004f:20004**
Rowley, Peter J. (*with* Stroth, Gernot) On a certain $(\mathrm{O}^+(6,q),\mathrm{O}^+(6,q))$-amalgam. **2004a:20022**
Sagirov, I. A. On finite groups, the degree of whose nonmonomial characters are prime numbers. (Russian. Russian summary) **2004k:20022**
Solomon, Ronald *see* **Korchagina, Inna et al., 2004b:20027**
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Zacher, Giovanni *see* **Costantini, Mauro, 2004m:20045**

20D06 Simple groups: alternating groups and groups of Lie type [see also 20Gxx]

Aleeva, M. R. On finite simple groups with the set of element orders as in a Frobenius group or a double Frobenius group. (Russian. Russian summary) **2004m:20027**
Aschbacher, Michael Finite groups of $G_2(3)$-type. **2004b:20025**
Bennett, Curtis D. (*with* Gramlich, Ralf; Hoffman, Corneliu; Shpektorov, S. V.) Curtis-Phan-Tits theory. (English summary) **2004g:20021**
Bray, J. N. (*with* Curtis, R. T.; Parker, Christopher; Wiedorn, Corinna) Symmetric presentations for the Fischer groups. I. The classical groups $\mathrm{Sp}_6(2)$, $\mathrm{Sp}_8(2)$, and $3\cdot\mathrm{O}_7(3)$. (English summary) **2004e:20021**
Chen, Gui Yun Characterization of $E_6(q)$. (English summary) **2004i:20021**
Curtis, R. T. *see* **Bray, J. N. et al., 2004e:20021**
Darafsheh, Mohammad Reza (*with* Moghaddamfar, Ali Reza; Zokayi, A. R.) A recognition of simple groups $\mathrm{PSL}(3,q)$ by their element orders. (English summary)
Gramlich, Ralf *see* **Bennett, Curtis D. et al., 2004g:20021**
Hoffman, Corneliu *see* **Bennett, Curtis D. et al., 2004g:20021**
Iranmanesh, A. (*with* Khosravi, Behrooz) A characterization of $F_4(q)$ where q is an odd prime power. (English summary) **2004m:20028**
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Khosravi, Amir (*with* Khosravi, Behrooz) A characterization of ${}^2D_n(q)$ where $n=2^m\geq 4$. (English summary) **2004m:20029**
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Kondrat'ev, Anatoliĭ S. (*with* Mazurov, Viktor Danilovich) 2-signalizers of finite simple groups. (Russian. Russian summary) **2004j:20024**
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Mazurov, Viktor Danilovich *see* **Kondrat'ev, Anatoliĭ S., 2004j:20024**
Moghaddamfar, Ali Reza *see* **Darafsheh, Mohammad Reza et al.**
Nekooei, R. (*with* Jabari, A.) Generating alternating groups. (English summary) **2004i:20022**
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Stroth, Gernot *see* **Rowley, Peter J., 2004a:20022**
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Tiep, Pham Huu (*with* Zalesskiĭ, Aleksandr E.) Unipotent elements of finite groups of Lie type and realization fields of their complex representations. (English summary) **2004m:20032**
Timmesfeld, Franz Georg Groups with root-system of type BC_l. **2004f:20035**
Vdovin, E. P. The number of subgroups with trivial unipotent radicals in finite groups of Lie type. (English summary) **2004m:20033**
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Xu, Dong Po Discusion of alternative gropu A_n with m-order subgroup. (Chinese. English and Chinese summaries)
Xu, Ming Chun (*with* Shi, Wu Jie) Pure quantitative characterization of finite simple groups ${}^2D_n(q)$ and $D_l(q)$ (l odd). (English summary) **2004k:20034**

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Zokayi, A. R. *see* **Darafsheh, Mohammad Reza et al.**

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Chak″ryan, Kerope B. *see* **Manolov, Petar**
Darafsheh, Mohammad Reza (*with* Rezaeezadeh, G. R.; Walls, Gary L.) Groups which are the product of S_6 and a simple group. (English summary) **2004e:20035**
Fang, Xingui *see* **Liu, Weijun et al., 2004k:20003**
Feit, Walter $PSL_2(11)$ is admissible for all number fields. **2004k:12006**
Grechkoseeva, M. A. On minimal permutation representations of classical simple groups. (Russian. Russian summary) **2004b:20021**
— Recognizability of the group $O_{10}^+(2)$ from its spectrum. (Russian. Russian summary) **2004f:20050**
Harada, Koichiro Accomplishments and problems of finite group theory [translation of Sūgaku **53** (2001), no. 1, 46–61]. (*see* **2004g:00024**)
Holmes, Petra E. (*with* Wilson, Robert A.) $PSL_2(59)$ is a subgroup of the Monster. (English summary) **2004k:20035**
Khosravi, Bahman *see* **Khosravi, Behrooz, 2004e:20038**
Khosravi, Behrooz (*with* Khosravi, Bahman) A characterization of ${}^2E_6(q)$. (English summary) **2004e:20038**
Levchuk, V. M. *see* **Zyubin, S. A., 2004j:20094**
Lewis, Mark L. (*with* White, Donald L.) Connectedness of degree graphs of nonsolvable groups. **2004g:20008**
Li, Hui Ling[1] Alternating groups A_n and 2-$(v, k, 1)$ designs. (English summary) **2004i:05016**
— *see also* **Liu, Weijun et al., 2004k:20003**
Liebeck, Martin W. (*with* Seitz, Gary M.) A survey of maximal subgroups of exceptional groups of Lie type. (English summary) **2004f:20089**
Liu, Weijun Steinberg triality groups acting on 2-$(v, k, 1)$ designs. (English summary) **2004i:05017**
— (*with* Zhou, Sheng Lin; Li, Hui Ling[1]; Fang, Xingui) Finite linear spaces admitting a Ree simple group. (English summary) **2004k:20003**
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Shi, Wu Jie (*with* Wang, Lin Hong; Wang, Shao Heng) Pure quantitative characterization of linear groups over the binary field. (Chinese. English and Chinese summaries) **2004i:20040**
Siemons, Johannes (*with* Zalesskii, Aleksandr E.) Regular orbits of cyclic subgroups in permutation representations of certain simple groups. **2004c:20003**
Steinbach, Anja Groups of Lie type generated by long root elements in $F_4(K)$. (English summary) **2004a:20053**
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Zavarnitsin, A. V. Recognition of the simple groups $L_3(q)$ by element orders. **2004j:20044**
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20D08 Simple groups: sporadic groups

Ali, Faryad (*with* Moori, Jamshid) The Fischer-Clifford matrices of a maximal subgroup of Fi_{24}'. (English summary) **2004i:20023**
Aschbacher, Michael A 2-local characterization of M_{12}. (English summary) **2004i:20024**
— A 2-local characterization of the Higman-Sims group. **2004e:20022**
Ashrafi, Ali Reza (*with* Moghani, G. A.) nX-complementary generations of the sporadic group Suz. (English summary) **2004c:20026**
— nX-complementary generations of the Harada-Norton group HN. (English summary) **2004i:20025**
— (p, q, r)-generations and nX-complementary generations of the Thompson group Th. (English summary) **2004f:20036**
— *see also* **Darafsheh, Mohammad Reza et al., 2004b:20026; 2004e:20023; 2004m:20034** *and* **Mehrabadi, K. et al., 2004j:20026**
Campbell, Colin Matthew (*with* Havas, George; Hulpke, Alexander; Robertson, Edmund F.) Efficient simple groups. (English summary) **2004f:20037**
Darafsheh, Mohammad Reza (*with* Ashrafi, Ali Reza; Moghani, G. A.) (p, q, r)-generations of the sporadic group O'N. (English summary) **2004m:20034**
— (*with* Ashrafi, Ali Reza) Generating pairs for the sporadic group Ru. (English summary) **2004b:20026**
— (*with* Ashrafi, Ali Reza; Moghani, G. A.) (p, q, r)-generations and nX-complementary generations of the sporadic group Ly. (English summary) **2004e:20023**
Guralnick, Robert M. (*with* Shalev, Aner) On the spread of finite simple groups. (English summary) **2004f:20038**
Hagie, Mina The prime graph of a sporadic simple group. (English summary) **2004i:20026**
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Hiss, Gerhard Die sporadischen Gruppen. (English summary) [The sporadic groups] **2004j:20025**
Holmes, Petra E. (*with* Linton, Stephen A.; Murray, Scott H.) Product replacement in the Monster. (English summary) **2004g:20022**
— (*with* Wilson, Robert A.) $PSL_2(59)$ is a subgroup of the Monster. (English summary) **2004k:20035**
Hulpke, Alexander *see* **Campbell, Colin Matthew et al., 2004f:20037**
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Kratzer, Mathias (*with* Lempken, Wolfgang; Michler, Gerhard O.; Waki, Katsushi) Another existence and uniqueness proof for McLaughlin's simple group. (English summary) **2004i:20027**
Leemans, Dimitri On a rank four geometry for the Hall-Janko sporadic group. (English summary) **2004a:20023**
Lempken, Wolfgang 2-local amalgams for the simple groups GL(5, 2), M_{24} and He. II. (English summary) **2004h:20021**
— 2-local amalgams for the simple groups GL(5, 2), M_{24} and He. (English summary) **2004m:20035**
— *see also* **Kratzer, Mathias et al., 2004i:20027**
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Linton, Stephen A. *see* **Holmes, Petra E. et al., 2004g:20022**
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Mazurov, Viktor Danilovich On the generation of sporadic simple groups by three involutions, two of which commute. (Russian. Russian summary) **2004g:20023**
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Michler, Gerhard O. (*with* Weller, Michael; Waki, Katsushi) Natural existence proof for Lyons simple group. (English summary) **2004i:20028**
— *see also* **Kratzer, Mathias et al., 2004i:20027**
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Parker, Christopher (*with* Rowley, Peter J.) A characteristic 5 identification of the Lyons group. **2004j:20027**
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Solomon, Ronald *see* **Korchagina, Inna et al., 2004b:20027** *and* **2004e:20024**
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Wilson, Robert A. Computing in the Monster. (English summary) **2004f:20039**
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— (*with* O'Brien, E. A.; Wilson, Robert A.) The Alperin weight conjecture and Dade's conjecture for the simple group J_4. (English summary) **2004h:20018**
Cooperman, Gene (*with* Grinberg, Victor) Scalable parallel coset enumeration using bulk definition. (English summary) (*see* **2004j:68016**)
Craps, Ben (*with* Gaberdiel, Matthias R.; Harvey, Jeffrey A.) Monstrous branes. (English summary) **2004i:81215**
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Harada, Koichiro Accomplishments and problems of finite group theory [translation of Sūgaku **53** (2001), no. 1, 46–61]. (*see* **2004g:00024**)
Harvey, Jeffrey A. *see* **Craps, Ben et al., 2004i:81215**
Ivanov, Aleksandr Anatol′evich (*with* Wiedorn, Corinna) More on geometries of the Fischer group Fi_{22}. (English summary) **2004c:51009**
Khosravi, Amir (*with* Khosravi, Behrooz) A new characterization of some alternating and symmetric groups. (English summary) **2004i:20018**
Khosravi, Behrooz *see* **Khosravi, Amir, 2004i:20018**
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Kratzer, Mathias (*with* Michler, Gerhard O.; Weller, Michael) Harada group uniquely determined by centralizer of a 2-central involution. (English summary) **2004h:20020**
Lam, Ching Hung *see* **Kitazume, Masaaki et al., 2004b:17051**
Leemans, Dimitri The residually weakly primitive geometries of M_{22}. (English summary) **2004f:51029**
Mazurov, Viktor Danilovich *see* **Kondrat′ev, Anatoliĭ S., 2004j:20024**
Michler, Gerhard O. *see* **Kratzer, Mathias et al., 2004h:20020**
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Sakuma, Shinya The McKay-Thompson series of some elements of order 3, 5, and 7 in the Monster. (English summary) **2004d:17031**
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Scheithauer, Nils R. Generalized Kac-Moody algebras, automorphic forms and Conway's group. I. (English summary) **2004m:17036**
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Wilson, Robert A. *see* **An, Jianbei et al., 2004h:20018**
Yamada, Hiromichi *see* **Kitazume, Masaaki et al., 2004b:17051**

20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π-length, ranks [see also 20F17]

Al′-Sharo, Kh. A. (*with* Shemetkov, L. A.) On subgroups of prime order in a finite group.

(Russian. English and Ukrainian summaries) **2004c:20028**
— A characterization of radicals in finite groups. (English summary) **2004j:20028**
Arroyo-Jordá, M. (*with* Pérez-Ramos, M. D.) Fitting classes and lattice formations. I. (English summary) **2004j:20029**
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Asaad, M. (*with* Heliel, A. A.) On permutable subgroups of finite groups. (English summary) **2004b:20028**
Ballester-Bolinches, A. (*with* Martínez Pastor, A.; Pedraza-Aguilera, M. C.; Pérez-Ramos, M. D.) On nilpotent-like fitting formations. (*see* **2004j:20001**)
— (*with* Esteban-Romero, R.) On finite soluble groups in which Sylow permutability is a transitive relation. (English summary) **2004h:20023**
— (*with* Esteban-Romero, R.) On finite $\mathscr{T}$-groups. (English summary) **2004k:20036**
— *see also* **Guo, Xiu Yun et al., 2004c:20030**
Bandman, Tatiana (*with* Greuel, Gert-Martin; Grunewald, Fritz; Kunyavskiĭ, Boris; Pfister, Gerhard; Plotkin, E. B.) Two-variable identities for finite solvable groups. (English and French summaries) **2004i:20029**
Baryshovets, P. P. On finite A-groups with complemented nonmetacyclic subgroups. (Russian. English and Ukrainian summaries) **2004i:20030**
Beidleman, James C. (*with* Heineken, Hermann) On the Fitting core of a formation. (English summary) **2004h:20024**
— (*with* Heineken, Hermann) Finite soluble groups whose subnormal subgroups permute with certain classes of subgroups. **2004k:20037**
Bliznets, I. V. Critical ω-composition formations. (Russian. English and Russian summaries)
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Bobr, V. V. On the solvability of finite irreducible linear groups with a Hall TI-subgroup. (Russian. Russian summary) **2004d:20014**
Chen, Gui Yun *see* **Han, Zhang Jia**
Covaci, Rodica Projectors with respect to some special Schunck classes. (English summary) **2004d:20015**
— $\mathscr{X}$-maximal subgroups in finite π-solvable groups with respect to a Schunck class $\mathscr{X}$. (English summary) **2004f:20040**
D'Aniello, A. (*with* Pérez-Ramos, M. D.) On dual pronormal subgroups and fitting classes. (*see* **2004j:20001**)
— (*with* De Vivo, Clorinda; Giordano, Gabriele) A closed Schunck class for normal products. (Italian. English summary)
— (*with* De Vivo, Clorinda; Giordano, Gabriele) Saturated formations and Sylow normalisers. (English summary) **2004m:20037**
Darafsheh, Mohammad Reza (*with* Moghaddamfar, Ali Reza; Zokayi, A. R.) Classification of minimal PN-groups. (English summary) **2004g:20024**
De Vivo, Clorinda *see* **D'Aniello, A. et al., 2004m:20037**
Du, Xiang Lin *see* **Jiang, You Yi et al., 2004a:20024**
Dutta, Tapan Kumar[1] (*with* Sen, Paramita) Some characterisations of solvable groups using index-complex. (English summary) **2004c:20029**
— (*with* Sen, Paramita) Some characterisations of π-solvable groups using θ-subgroups and some characteristic subgroups. (English summary) **2004d:20016**
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— (*with* Soler-Escrivà, X.) On mutually M-permutable products of finite groups. (English summary) **2004b:20029**
— (*with* Soler-Escrivà, X.) Some permutability properties related to $\mathfrak{F}$-hypercentrally embedded subgroups of finite groups. (English summary) **2004e:20026**
Feldman, Arnold Properties of subgroups of solvable groups that imply they are normally embedded. (English summary) **2004e:20027**
Foote, Richard M. (*with* Jones, Lenny) Homogeneously generated groups. (English summary) **2004e:20028**
Fukushima, Hiroshi M-groups of Fitting length three. **2004g:20026**
Giordano, Gabriele *see* **D'Aniello, A. et al., 2004m:20037**
Greuel, Gert-Martin A computer algebra solution to a problem in finite groups. (English summary) **2004k:20038**
— *see also* **Bandman, Tatiana et al., 2004i:20029**
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— (*with* Shum, K. P.; Skiba, A. N.) G-covering subgroup systems for the classes of supersoluble and nilpotent groups. (English summary) **2004k:20039**
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20D20 Sylow subgroups, Sylow properties, π-groups, π-structure

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20D25 Special subgroups (Frattini, Fitting, etc.)

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20Exx Structure and classification of infinite or finite groups

20E05 Free nonabelian groups

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20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations

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20E07 Subgroup theorems; subgroup growth

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Detomi, Eloisa Groups with many subnormal subgroups. (English summary) **2004d:20034**
Dobrynina, I. V. *see* **Bezverkhniĭ, V. N., 2004h:20048**
Fine, Benjamin (*with* Myasnikov, Aleksei G.; Rosenberger, Gerhard) Malnormal subgroups of free groups. (English summary) **2004c:20040**
Ivanov, Sergei Vladimir On subgroups of free Burnside groups of large odd exponent. (English summary) **2004j:20078**
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— (*with* Schlage-Puchta, Jan-Christoph) Parity patterns in one-relator groups. (English summary) **2004b:20047**
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Romanovskiĭ, N. S. (*with* Timoshenko, E. I.) On some elementary properties of solvable groups of derived length 2. (Russian. Russian summary) **2004b:20050**
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20E08 Groups acting on trees [see also 20F65]

Carbone, Lisa (*with* Rosenberg, Gabriel) Lattices on nonuniform trees. (English summary) **2004e:20043**
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Guirardel, Vincent A very short proof of Forester's rigidity result. (English summary) **2004e:20045**
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Mahmood, R. M. S. On centralizers of elements of groups acting on trees with inversions. (English summary) **2004g:20036**
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Muntyan, E. V. Verbal subgroups of automorphism groups of homogeneous rooted trees. (Russian. English and Russian summaries) **2004d:20027**
Pervova, E. L. The congruence property of AT-groups. (Russian. Russian summary) **2004e:20046**
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Astengo, Francesca An uncertainty principle on homogeneous trees. (English summary) **2004j:43010**
Bell, Gregory C. Property A for groups acting on metric spaces. (English summary) **2004d:20047**
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Kapoudjian, Christophe From symmetries of the modular tower of genus zero real stable curves to a Euler class for the dyadic circle. (English summary) **2004d:14029**
Levitt, Gilbert (*with* Lustig, Martin) Irreducible automorphisms of F_n have north-south dynamics on compactified outer space. (English summary) **2004a:20046**
Lustig, Martin *see* **Levitt, Gilbert, 2004a:20046**
Mason, A. W. The generalization of Nagao's theorem to other subrings of the rational function field. (English summary) **2004m:20101**
Moon, Myoungho On certain finitely generated subgroups of groups which split. (English summary) **2004b:20037**
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20E10 Quasivarieties and varieties of groups

Abdollahi, Alireza A combinatorial problem in infinite groups. (English summary) **2004g:20040**
— Certain locally nilpotent varieties of groups. (English summary) **2004b:20039**
Almeida, Jorge (*with* Escada, Ana) Semidirect products with the pseudovariety of all finite groups. (English summary) **2004j:20058**
Auinger, Karl Join decompositions of pseudovarieties of the form $\mathbf{DH} \cap \mathbf{ECom}$. (English summary) **2004j:20059**
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Budkin, A. I. On the lattice of quasivarieties of torsion-free metabelian groups. (Russian. Russian summary) **2004g:20041**
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— (*with* Krasil′nikov, A. N.) The finite basis question for varieties of groups—some recent results. (English summary) **2004k:20057**
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— *see also* **Gupta, Chander Kanta**
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— (*with* Rismanchian, Mohammad Reza) Some results on generalized Baer-invariant of groups. (English summary) **2004f:20056**
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Boukaroura, Ali Two conditions for infinite groups to satisfy certain laws. (English summary) **2004b:20063**
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Kopytov, V. M. (*with* Rachůnek, Jiří) The largest proper variety of m-groups. (Russian. Russian summary) **2004k:08007**
Mashayekhy, B. (*with* Khaksar, A.) On $\mathscr{N}_c$-covering groups of a nilpotent product of cyclic groups. (English summary)
Mikaelyan, V. G. An embedding construction for ordered groups. (English summary) **2004c:20068**
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20E15 Chains and lattices of subgroups, subnormal subgroups [see also 20F22]

Călugăreanu, Grigore (*with* Deaconescu, Marian) Breaking points in subgroup lattices. (English summary) **2004m:20052**
Chernikov, N. S. On Baer's problem and properties of M''-groups. (English summary) **2004m:20053**
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De Mari, Fausto Just inseparable groups. (English summary)
Dixon, Martyn R. (*with* Kurdachenko, Leonid A.) Groups with the maximal condition on non-BFC subgroups. II. (English summary) **2004c:20046**
Franchi, Clara On a class of generalized soluble $\mathfrak{X}$-groups. (English summary) **2004h:20039**
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Kurdachenko, Leonid A. (*with* Smith, Howard) Groups in which all subgroups of infinite rank are subnormal. (English summary) **2004i:20045**
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Musella, Carmela *see* **De Falco, Maria, 2004k:20059** *and* **2004k:20060**
Russo, Alessio *see* **de Giovanni, Francesco et al., 2004k:20061**
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Smith, Howard Torsion-free groups with all non-nilpotent subgroups subnormal. **2004a:20030**
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— *see also* **Kurdachenko, Leonid A., 2004i:20045**
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Pikhtil'kov, S. A. On the prime radical of PI-representable groups. (Russian. Russian summary) **2004a:20039**
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20E18 Limits, profinite groups

Barnea, Yiftach (*with* Klopsch, Benjamin) Index-subgroups of the Nottingham group. (English summary) **2004m:20054**
Coulbois, Thierry (*with* Sapir, Mark V.; Weil, Pascal) A note on the continuous extensions of injective morphisms between free groups to relatively free profinite groups. (English summary) **2004h:20040**
Gavioli, Norberto (*with* Monti, Valerio; Scoppola, Carlo Maria) Soluble pro-p-groups and soluble Lie algebras. (English summary) (*see* **2004k:20001**)
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Klopsch, Benjamin Pro-p groups with linear subgroup growth. (English summary) **2004i:20046**
— *see also* **Barnea, Yiftach, 2004m:20054**
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Wagner, Frank O. Small profinite m-stable-groups. (English summary) **2004d:20029**
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Arad, Zvi (*with* Herfort, W.) (Pro)-finite and (topologically) locally finite groups with a CC-subgroup. (English summary) (*see* **2004j:20001**)
Bass, Hyman (*with* Lubotzky, Alexander; Magid, Andy R.; Mozes, Shahar) The proalgebraic completion of rigid groups. (English summary) **2004c:20069**
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Howson, Susan Euler characteristics as invariants of Iwasawa modules. **2004c:11202**
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Muntyan, E. V. Verbal subgroups of automorphism groups of homogeneous rooted trees. (Russian. English and Russian summaries) **2004d:20027**
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Shalev, Aner Applications of random generation to residual properties of some infinite groups. **2004f:20057**
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20E22 Extensions, wreath products, and other compositions [see also 20J05]

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Davvaz, B. *see* **Anvariyeh, S. M., 2004a:20031**
Gholami, Ahmad *see* **Moghaddam, Mohammad Reza R. et al., (2004f:00019)**
Glass, A. M. W. (*with* Winkler, Reinhard) Rooted wreath products. (English summary) **2004j:20062**
Kovács, L. G. A non-extendable abstract kernel. (English summary) **2004j:20063**
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Parker, Christopher (*with* Quick, Martyn) Maximal complements in wreath products. **2004e:20049**
Puusemp, P. A standard wreath product of groups and its endomorphism semigroup. (English summary) **2004i:20048**
Quick, Martyn *see* **Parker, Christopher, 2004e:20049**
Salemkar, Ali Reza *see* **Moghaddam, Mohammad Reza R. et al., (2004f:00019)**
Winkler, Reinhard *see* **Glass, A. M. W., 2004j:20062**

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Baumslag, Gilbert (*with* Bridson, Martin R.; Holt, Derek F.; Miller, Charles F., III) Finite presentation of fibre products of metabelian groups. (English summary) **2004e:20053**
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Ecker, Jürgen The finite 1-affine complete Frobenius groups. (English summary) **2004m:20048**
Edmundo, Mário J. Solvable groups definable in o-minimal structures. (English summary) **2004j:03048**
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20E25 Local properties

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Beidleman, James C. *see* **Ballester-Bolinches, A. et al., 2004i:20049**
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Krasil′nikov, A. N. *see* **Deryabina, G. S., 2004a:20034**
Kurdachenko, Leonid A. (*with* Smith, Howard) Groups in which all subgroups of infinite rank are subnormal. (English summary) **2004i:20045**
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Parker, Christopher (*with* Parmeggiani, G.; Stellmacher, Bernd) The $P!$-theorem. (English summary) **2004f:20033**
Parmeggiani, G. *see* **Parker, Christopher et al., 2004f:20033**
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Shelah, Saharon *see* **Göbel, Rüdiger et al., 2004j:20074**
Smith, Howard Torsion-free groups with all non-nilpotent subgroups subnormal. **2004a:20030**
— *see also* **Kurdachenko, Leonid A., 2004i:20045**
Stellmacher, Bernd *see* **Parker, Christopher et al., 2004f:20033**
Sushchans′kiĭ, V. Ī. *see* **Nazarchuk, Valerīĭ V., 2004k:20005**
Wallutis, Simone L. *see* **Göbel, Rüdiger et al., 2004j:20074**
Ziman, Miloš Extensions of Latin subsquares and local embeddability of groups and group algebras. (English summary)

20E26 Residual properties and generalizations

Allenby, R. B. J. T. (*with* Kim, Goansu; Tang, Francis C. Y.) On the residual finiteness of $\mathrm{Out}(\pi_1(M))$ of certain Seifert manifolds. (English summary) **2004d:20030**
Hamilton, Emily Classes of separable two-generator free subgroups of 3-manifold groups. (English summary) **2004e:20050**
Hsu, Tim (*with* Wise, Daniel T.) Ascending HNN extensions of polycyclic groups are residually finite. (English summary) **2004b:20042**
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Shalev, Aner Applications of random generation to residual properties of some infinite groups. **2004f:20057**
— *see also* **Liebeck, Martin W., 2004h:20042** *and* **2004i:20050**
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Taeri, Bijan On a class of residually finite groups. (English summary) **2004k:20063**
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Lubotzky, Alexander (*with* Segal, Dan) ★ Subgroup growth. **2004k:20055**
Medvedev, Yurīĭ Aleksandrovich *see* **Burns, R. G., 2004h:20037**
Otal, Javier *see* **Kurdachenko, Leonid A., 2004c:20060**
Segal, Dan *see* **Lubotzky, Alexander, 2004k:20055**
Sharma, Sneh On parafree groups. (English summary) **2004d:20032**
Sokolov, EvgeniĭViktorovich On the approximability of some free products with an amalgamated subgroup by finite p-groups. (Russian. Russian summary) **2004k:20054**
Wise, Daniel T. The rank of a direct power of a small-cancellation group. (English summary) **2004b:20048**

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20E28 Maximal subgroups

Items with secondary classifications in 20E28

Archer, Claude Direct sum decomposition of geometries based on maximal subgroups. (English summary) **2004m:20063**
Li, Xian Hua Influence of indices of the maximal subgroups of the finite simple groups on the structure of a finite group. (English summary) **2004m:20030**
Zhao, Yao Qing Completion, theta-completion and the solvability of finite groups. (English summary) **2004e:20029**
— On supplements of maximal subgroups of a finite group. (English summary) **2004j:20035**

20E32 Simple groups [see also 20D05]

Altınel, Tuna Simple groups of finite Morley rank of even type. **2004i:20051**
— (*with* Borovik, Alexandre V.; Cherlin, Gregory) Classification of simple K^*-groups of finite Morley rank and even type: geometric aspects. **2004e:20051**
— (*with* Cherlin, Gregory) On groups of finite Morley rank of even type. **2004c:20048**
— (*with* Borovik, Alexandre V.; Cherlin, Gregory; Corredor, Luis-Jaime) Parabolic 2-local subgroups in groups of finite Morley rank of even type. **2004i:20052**
— (*with* Cherlin, Gregory) Simple L^*-groups of even type with strongly embedded subgroups. **2004k:20064**
Berkman, Ayşe (*with* Borovik, Alexandre V.) An identification theorem for groups of finite Morley rank and even type. (English summary) **2004e:20052**
Borovik, Alexandre V. *see* **Altınel, Tuna et al., 2004e:20051**; **2004i:20052** *and* **Berkman, Ayşe, 2004e:20052**
Cherlin, Gregory *see* **Altınel, Tuna et al., 2004c:20048**; **2004e:20051**; **2004i:20052** *and* **2004k:20064**
Corredor, Luis-Jaime *see* **Altınel, Tuna et al., 2004i:20052**
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Harada, Koichiro (*with* Lang, Mong Lung) Sylow 2-subgroups of finite simple groups. (*see* **2004g:16002**)
Ho, Chat Yin Collineation groups with perspectivities. **2004m:51019**
Korchagina, Inna On a theorem of P. Fong. (English summary) **2004i:20019**
Lang, Mong Lung *see* **Harada, Koichiro, (2004g:16002)**
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Parmeggiani, G. *see* **Parker, Christopher et al., 2004f:20033**
Rezaeezadeh, G. R. *see* **Darafsheh, Mohammad Reza et al., 2004e:20035**
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Röver, Claas E. Abstract commensurators of groups acting on rooted trees. (English summary) **2004d:20028**
Rowley, Peter J. (*with* Stroth, Gernot) On a certain $(\mathrm{O}^+(6,q), \mathrm{O}^+(6,q))$-amalgam. **2004a:20022**
Shlepkin, A. K. *see* **Sozutov, A. I., 2004c:20065**
Sozutov, A. I. (*with* Shlepkin, A. K.) On some groups with finite involution that are saturated with finite simple subgroups. (Russian. Russian summary) **2004c:20065**
Steinwandt, Rainer *see* **González Vasco, María Isabel et al., 2004h:20035**
Stellmacher, Bernd *see* **Parker, Christopher et al., 2004f:20033**
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Tent, Katrin BN-pairs and groups of finite Morley rank. (English summary) **2004k:20065**
Walls, Gary L. *see* **Darafsheh, Mohammad Reza et al., 2004e:20035**

20E34 General structure theorems

Jiang, You Yi Finite groups with 44 or 52 maximal-order elements. (Chinese. English and Chinese summaries)

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Amineva, N. N. *see* **Antonov, Vladimir A., 2004i:20041**
Antonov, Vladimir A. (*with* Amineva, N. N.) On groups with relatively large centralizers. (Russian) **2004i:20041**
Bryce, R. A. (*with* Fedri, V.; Serena, Luigi) A generalized Hughes property of finite groups. (English summary) **2004g:20031**
Fedri, V. *see* **Bryce, R. A. et al., 2004g:20031**
Grigorchuk, Rostislav (*with* Wilson, John S.) A structural property concerning abstract commensurability of subgroups. (English summary) **2004i:20056**
Kurdachenko, Leonid A. (*with* Otal, Javier; Subbotīn, Ī. Ya.) Groups with bounded Chernikov conjugate classes of elements. (English and Ukrainian summaries) **2004c:20059**
— (*with* Subbotīn, Ī. Ya.) Pronormality, contranormality and generalized nilpotency in infinite groups. (English summary) **2004g:20047**
Otal, Javier *see* **Kurdachenko, Leonid A. et al., 2004c:20059**
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Wilson, John S. *see* **Grigorchuk, Rostislav, 2004i:20056**

20E36 General theorems concerning automorphisms of groups

Khukhro, Evgenii I. *see* **Makarenko, N. Yu., 2004f:20058**
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Gupta, Chander Kanta (*with* Timoshenko, E. I.) On the test rank of some free polynilpotent groups. (Russian. Russian summary) **2004c:20056**
Maslakova, O. S. The fixed point group of a free group automorphism. (Russian. Russian summary) **2004i:20044**
Qian, Guo Hua On automorphism groups of some finite groups. (English summary) **2004k:20073**
Timoshenko, E. I. *see* **Gupta, Chander Kanta, 2004c:20056**

20E42 Groups with a BN-pair; buildings [see also 51E24]

Cutting, Paul (*with* Robertson, Alexander Guyan) Type III actions on boundaries of $\tilde{A}_n$ buildings. (English summary) **2004b:20043**
Genet, Gwenaëlle On the commutator formula of a split BN-pair. (English summary) **2004b:20044**
von Heydebreck, Anja Homotopy properties of certain complexes associated to spherical buildings. (English summary) **2004c:20049**
Kramer, Linus Loop groups and twin buildings. (English summary) **2004c:20050**
van Maldeghem, Hendrik *see* **Tent, Katrin, 2004b:20045**
Robertson, Alexander Guyan *see* **Cutting, Paul, 2004b:20043**
Ronan, Mark Twin trees and twin buildings. **2004m:20056**
Tent, Katrin BN-pairs and groups of finite Morley rank. (English summary) **2004k:20065**
— (*with* van Maldeghem, Hendrik) Moufang polygons and irreducible spherical BN-pairs of rank 2. I. (English summary) **2004b:20045**
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Berkman, Ayşe (*with* Borovik, Alexandre V.) An identification theorem for groups of finite Morley rank and even type. (English summary) **2004e:20052**
Borovik, Alexandre V. (*with* Gel′fand, Izrail′ Moiseevich; White, Neil) ★ Coxeter matroids. **2004i:05028**
— *see also* **Berkman, Ayşe, 2004e:20052**
Burichenko, Vladimir P. Extensions of cocycles, Cohen-Macaulay geometries, and a vanishing theorem for cohomology of alternating groups. (English summary) **2004i:20097**
Carbone, Lisa (*with* Garland, Howard) Existence of lattices in Kac-Moody groups over finite fields. (English summary) **2004m:17031**
Ellers, Erich W. (*with* Gordeev, Nikolai) Intersection of conjugacy classes with Bruhat cells in Chevalley groups. (English summary) **2004m:20091**
Gan, Wee Teck (*with* Yu, Jiu-Kang) Schémas en groupes et immeubles des groupes exceptionnels sur un corps local. I. Le groupe G_2. (English and French summaries) [Group schemes and buildings of exceptional groups over a local field. I. The group G_2] **2004j:14049**
Garland, Howard *see* **Carbone, Lisa, 2004m:17031**
Gaussent, Stéphane Corrections and new results on: "The fibre of the Bott-Samelson resolution" [Indag. Math. (N.S.) **12** (2001), no. 4, 453–468]. (English summary)
Gel′fand, Izrail′ Moiseevich *see* **Borovik, Alexandre V. et al., 2004i:05028**
Gordeev, Nikolai *see* **Ellers, Erich W., 2004m:20091**
Gramlich, Ralf (*with* Hoffman, Corneliu; Shpektorov, S. V.) A Phan-type theorem for $\mathrm{Sp}(2n, q)$. **2004i:20088**
— *see also* **Bennett, Curtis D. et al., 2004g:20021**
Grundhöfer, Theo Basics on buildings. **2004i:51010**
Haglund, Frédéric Existence, unicité et homogénéité de certains immeubles hyperboliques. (English and French summaries) [Existence, uniqueness and homogeneity of certain hyperbolic buildings] **2004f:51028**
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Leuzinger, Enrico Bi-Lipschitz embeddings of trees into Euclidean buildings. (English summary) **2004m:20093**
Lindlbauer, Marc (*with* Voit, Michael) Limit theorems for isotropic random walks on triangle buildings. (English summary) **2004e:43009**
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Parshin, A. N. Vector bundles and arithmetic groups. II. (Russian. Russian summary) **2004m:14090**
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Robertson, Alexander Guyan (*with* Sinclair, Allan M.; Smith, Roger R.) Strong singularity for subalgebras of finite factors. (English summary) **2004c:22007**
— (*with* Steger, Tim) Irreducible subshifts associated with $\tilde{A}_2$ buildings. (English summary) **2004d:37024**
Ronan, Mark Affine twin buildings. **2004h:51016**
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Smith, Roger R. *see* **Robertson, Alexander Guyan et al., 2004c:22007**
Steger, Tim *see* **Robertson, Alexander Guyan, 2004d:37024**
Timmesfeld, Franz Georg Subgroups isomorphic to $\mathrm{SL}_2(F)$ of rank one groups. (English summary) **2004i:20083**
— Groups with root-system of type BC_l. **2004f:20035**
Voit, Michael *see* **Lindlbauer, Marc, 2004e:43009**
White, Neil *see* **Borovik, Alexandre V. et al., 2004i:05028**
Yu, Jiu-Kang *see* **Gan, Wee Teck, 2004j:14049**

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20E45 Conjugacy classes

Items with secondary classifications in 20E45

Arregi, J. M. *see* **Vera-López, Antonio, 2004i:20091**
Ashrafi, Ali Reza (*with* Sahraei, Heydar) Subgroups which are a union of a given number of conjugacy classes. (English summary) (*see* **2004j:20001**)
Beltrán, Antonio (*with* Felipe, María José) On the diameter of a p-regular conjugacy class graph of finite groups. (English summary) **2004c:05087**
— (*with* Felipe, María José) On the diameter of a p-regular conjugacy class graph of finite groups. II. (English summary) **2004k:05107**
Bertram, Edward A. (*with* Herzog, Marcel; Lev, Arieh) A correspondence between conjugacy classes and irreducible characters of finite groups. (English summary) **2004a:20011**
Chen, Bo² *see* **Ren, Yong Cai, 2004b:20035**
Ellers, Erich W. (*with* Gordeev, Nikolai) Intersection of conjugacy classes with Bruhat cells in Chevalley groups. (English summary) **2004m:20091**
Fang, Ming⁴ (*with* Zhang, Pu¹) Finite groups with graphs containing no triangles. (English summary) **2004f:20051**
Felipe, María José *see* **Beltrán, Antonio, 2004c:05087** *and* **2004k:05107**
Franco, Nuno (*with* González-Meneses, Juan) Conjugacy problem for braid groups and Garside groups. (English summary) **2004g:20050**
González-Meneses, Juan *see* **Franco, Nuno, 2004g:20050**
Gordeev, Nikolai *see* **Ellers, Erich W., 2004m:20091**
Herzog, Marcel *see* **Bertram, Edward A. et al., 2004a:20011**
Hethelyi, Laszlo (*with* Külshammer, Burkhard) On the number of conjugacy classes of a finite solvable group. II. (English summary) **2004h:20025**
Kostant, Bertram (*with* Michor, Peter W.) The generalized Cayley map from an algebraic group to its Lie algebra. (English summary) **2004h:20062**
Kratzer, Mathias Constructing pairs of compatible characters. (English summary) **2004h:20019**
Külshammer, Burkhard *see* **Hethelyi, Laszlo, 2004h:20025**
Kurdachenko, Leonid A. (*with* Otal, Javier; Subbotīn, Ī. Ya.) Groups with bounded Chernikov conjugate classes of elements. (English and Ukrainian summaries) **2004c:20059**
Lev, Arieh *see* **Bertram, Edward A. et al., 2004a:20011**
Luo, Chi (*with* Ren, Yong Cai) Finite groups whose conjugacy-class graphs have at most three edges. (Chinese. English and Chinese summaries) **2004d:20024**
Michor, Peter W. *see* **Kostant, Bertram, 2004h:20062**
Nazarchuk, Valerīĭ V. (*with* Sushchans′kiĭ, V. Ī.) Groups of periodically defined permutations of countable degree. (Russian. English and Russian summaries) **2004k:20005**
Otal, Javier *see* **Kurdachenko, Leonid A. et al., 2004c:20059**
Ren, Yong Cai (*with* Chen, Bo²) A conjugacy-class-length characterization of finite minimal non-abelian groups and some related results. (English and Chinese summaries) **2004b:20035**
— *see also* **Luo, Chi, 2004d:20024**
Rodgers, D. M. (*with* Saxl, Jan) Products of conjugacy classes in the special linear groups. (English summary) **2004e:20081**
Sahraei, Heydar *see* **Ashrafi, Ali Reza, (2004j:20001)**
Saxl, Jan *see* **Rodgers, D. M., 2004e:20081**
Subbotīn, Ī. Ya. *see* **Kurdachenko, Leonid A. et al., 2004c:20059**
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Vera-López, Antonio (*with* Arregi, J. M.) Conjugacy classes in unitriangular matrices. (English summary) **2004i:20091**
Zhang, Pu¹ *see* **Fang, Ming⁴, 2004f:20051**

20E99 None of the above, but in this section

Items with secondary classifications in 20E99

Baumann, Bernd (*with* Meierfrankenfeld, Ulrich) On normalizers of nilpotent subgroups. **2004i:20059**
Fine, Benjamin (*with* Rosenberger, Gerhard) Some open problems in infinite group theory. (English summary) **2004h:20002**
Meierfrankenfeld, Ulrich *see* **Baumann, Bernd, 2004i:20059**
Rosenberger, Gerhard *see* **Fine, Benjamin, 2004h:20002**

20Fxx Special aspects of infinite or finite groups

20F05 Generators, relations, and presentations

Abas, M. Homomorphisms of triangle groups with large injectivity radius. (English summary)
Akhmedov, Azer On the girth of finitely generated groups. (English summary) **2004g:20043**

Ashiq, M. *see* **Mushtaq, Qaiser et al., 2004m:20060**
Aslam, Muhammad[1] *see* **Mushtaq, Qaiser et al., 2004m:20060**
Bardakov, V. G. (*with* Vesnin, A. Yu.) On a generalization of Fibonacci groups. (Russian. Russian summary) **2004i:20053**
Bartholdi, Laurent A Wilson group of non-uniformly exponential growth. (English and French summaries) **2004c:20051**
— Endomorphic presentations of branch groups. (English summary) **2004h:20044**
Baumslag, Gilbert (*with* Bridson, Martin R.; Holt, Derek F.; Miller, Charles F., III) Finite presentation of fibre products of metabelian groups. (English summary) **2004e:20053**
Bazhenova, Galina A. Polynomial isoperimetric inequality for groups with function $\Delta(n)$ bounded by $n(\frac{1}{3}-\varepsilon)$. (English summary) **2004i:20054**
Bezverkhnyaya, N. B. On the Howson property of a class of one-relator groups. (Russian) **2004j:20065**
— On the quasiconvexity of subgroups of a class of groups with one defining relation. (Russian. English and Russian summaries)
Bridson, Martin R. *see* **Baumslag, Gilbert et al., 2004e:20053**
Campbell, Colin Matthew (*with* Campbell, P. P.; Hopson, B. T. K.; Robertson, Edmund F.) On the efficiency of direct powers of PGL(2, p). (English summary) **2004g:20044**
Campbell, P. P. *see* **Campbell, Colin Matthew et al., 2004g:20044**
Chak″ryan, Kerope B. *see* **Manolov, Petar**
Edjvet, Martin (*with* Howie, James; Rosenberger, Gerhard; Thomas, Richard M.) Finite generalized tetrahedron groups with a high-power relator. (English summary) **2004b:20046**
— On irreducible cyclic presentations. (English summary) **2004d:20031**
Erschler-Dyubina, Anna Not residually finite groups of intermediate growth, commensurability and non-geometricity. (English summary) **2004j:20066**
Ghani, Neil (*with* Heyworth, Anne) A rewriting alternative to Reidenmeister-Schreier. (English summary)
Grishko, Yu. V. On asymmetrically decomposable groups. (Russian)
Havas, George (*with* Ramsay, Colin) Andrews-Curtis and Todd-Coxeter proof words. (English summary) **2004m:20057**
— (*with* Ramsay, Colin) Short balanced presentations of perfect groups. (English summary) (*see* **2004j:20001**)
— (*with* Robertson, Edmund F.) Irreducible cyclic presentations of the trivial group. (English summary)
— (*with* Ramsay, Colin) Breadth-first search and the Andrews-Curtis conjecture. (English summary) **2004a:20032**
Heyworth, Anne *see* **Ghani, Neil**
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Hopson, B. T. K. *see* **Campbell, Colin Matthew et al., 2004g:20044**
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Incitti, Roberto Conjugacy classes and growth conditions. (English summary) **2004f:20059**
Juhász, Arye On the solvability of a class of equations over groups. **2004m:20058**
Kaplan, Gil (*with* Lev, Arieh) On the dimension and basis concepts in finite groups. (English summary) **2004f:20060**
Kukina, E. G. (*with* Roman′kov, V. A.) Subquadraticity of the averaged Dehn function for free abelian groups. (Russian. Russian summary) **2004j:20067**
Lev, Arieh *see* **Kaplan, Gil, 2004f:20060**
Manolov, Petar (*with* Chak″ryan, Kerope B.) (2, 3)-generation of the groups $\mathrm{PSL}_4(2^m)$. (English summary)
Maqsood, T. *see* **Mushtaq, Qaiser et al., 2004m:20060**
Metaftsis, V. On the asphericity of relative group presentations of arbitrary length. (English summary) **2004k:20067**
Mikaelyan, V. G. On embedding properties of SD-groups. (English summary) **2004m:20059**
Miller, Charles F., III *see* **Baumslag, Gilbert et al., 2004e:20053**
Müller, Thomas W. (*with* Schlage-Puchta, Jan-Christoph) Parity patterns in one-relator groups. (English summary) **2004b:20047**
Mushtaq, Qaiser (*with* Maqsood, T.; Aslam, Muhammad[1]; Ashiq, M.) Homomorphic images of $\Delta(2, 3, 9)$ as subgroups of PGL$(2, q)$. (English summary) **2004m:20060**
Newell, Martin L. On Sanov 4th-compounds of a group. **2004k:20068**
Ol′shanskiĭ, A. Yu. (*with* Sapir, Mark V.) Non-amenable finitely presented torsion-by-cyclic groups. (English summary) **2004f:20061**
Ramsay, Colin *see* **Havas, George, 2004a:20032; 2004m:20057** *and* **(2004j:20001)**
Robertson, Edmund F. *see* **Campbell, Colin Matthew et al., 2004g:20044** *and* **Havas, George**
Roman′kov, V. A. *see* **Kukina, E. G., 2004j:20067**
Rosenberger, Gerhard *see* **Edjvet, Martin et al., 2004b:20046**
Sapir, Mark V. *see* **Ol′shanskiĭ, A. Yu., 2004f:20061**
Sayed, Mohamed Nested symmetric representation of elements of the Suzuki chain groups. (English summary) **2004m:20061**
Schlage-Puchta, Jan-Christoph *see* **Müller, Thomas W., 2004b:20047**
Semenov, N. S. An argument in favor of the Hurwitz property of $G_{sc}(E_6, q)$. (Russian. English and Russian summaries)
Thomas, Richard M. *see* **Edjvet, Martin et al., 2004b:20046**
Vesnin, A. Yu. *see* **Bardakov, V. G., 2004i:20053**
Wang, Xiao Feng[1] Second order Dehn functions of split extensions of the form $\mathbb{Z}^2 \rtimes_\varphi F$. (English summary) **2004f:20062**
— Second order Dehn functions of asynchronously automatic groups. (English summary) **2004c:20052**
Wilson, John S. On growth of groups with few relators. (English summary) **2004i:20055**

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Alperin, Roger C. (*with* Noskov, Gen. A.) Uniform growth, actions on trees and GL_2. **2004a:20044**
Ashrafi, Ali Reza (*with* Moghani, G. A.) nX-complementary generations of the sporadic group Suz. (English summary) **2004c:20026**
— nX-complementary generations of the Harada-Norton group HN. (English summary) **2004i:20025**
— (p, q, r)-generations and nX-complementary generations of the Thompson group Th. (English summary) **2004f:20036**
— *see also* **Darafsheh, Mohammad Reza et al., 2004e:20023; 2004m:20034** *and* **Mehrabadi, K. et al., 2004j:20026**
Bezverkhnĭl, V. N. (*with* Novikova, O. A.) Solution of the problem of the intersection of element centralizers of a free product with commuting subgroups. (Russian. English and Russian summaries) **2004g:20034**
Biskup, Igor Logical distinction between diagrammatic and Cohen-Lyndon aspericity. (English summary) **2004k:57003**
Bray, J. N. (*with* Curtis, R. T.; Parker, Christopher; Wiedorn, Corinna) Symmetric presentations for the Fischer groups. I. The classical groups $\mathrm{Sp}_6(2)$, $\mathrm{Sp}_8(2)$, and $3 \cdot \mathrm{O}_7(3)$. (English summary) **2004e:20021**
Campbell, Colin Matthew (*with* Mitchell, J. D.; Ruškuc, Nik) On the efficiency and deficiency of Rees matrix semigroups. (English summary) **2004i:20103**
— (*with* Havas, George; Hulpke, Alexander; Robertson, Edmund F.) Efficient simple groups. (English summary) **2004f:20037**
Curtis, R. T. *see* **Bray, J. N. et al., 2004e:20021**
Darafsheh, Mohammad Reza (*with* Ashrafi, Ali Reza; Moghani, G. A.) (p, q, r)-generations of the sporadic group O′N. (English summary) **2004m:20034**
— (*with* Ashrafi, Ali Reza; Moghani, G. A.) (p, q, r)-generations and nX-complementary generations of the sporadic group Ly. (English summary) **2004e:20023**
Eghdami, Gholam Hossein *see* **Moghaddam, Mohammad Reza R. et al., (2004f:00019)**
Foote, Richard M. (*with* Jones, Lenny) Homogeneously generated groups. (English summary) **2004e:20028**
Godelle, Eddy Normalisateur et groupe d'Artin de type sphérique. (English summary) [Normalizer and Artin group of spherical type] **2004h:20049**
Havas, George *see* **Campbell, Colin Matthew et al., 2004f:20037**
Hulpke, Alexander *see* **Campbell, Colin Matthew et al., 2004f:20037**
Iranmanesh, A. *see* **Mehrabadi, K. et al., 2004j:20026**
Jabari, A. *see* **Nekooei, R., 2004i:20022**
Jones, Lenny *see* **Foote, Richard M., 2004e:20028**
Kazaz, M. Abelian coverings of regular hypermaps of types $\{4, 4, 4\}$ and $\{3, 3, 4\}$ of genus 2. (English summary) **2004e:05058**
Klopsch, Benjamin (*with* Lev, Vsevolod F.) How long does it take to generate a group? (English summary) **2004e:20093**
Lempken, Wolfgang 2-local amalgams for the simple groups $\mathrm{GL}(5, 2)$, M_{24} and He. II. (English summary) **2004h:20021**
Lev, Vsevolod F. *see* **Klopsch, Benjamin, 2004e:20093**
Luzgarëv, A. Yu. (*with* Pevzner, I. M.) Some facts about the life of $\mathrm{GL}(5, \mathbb{Z})$. (Russian. English and Russian summaries)
McCullough, Darryl (*with* Wanderley, Marcus) Free actions on handlebodies. (English summary) **2004c:57031**
Mehrabadi, K. (*with* Ashrafi, Ali Reza; Iranmanesh, A.) (p, q, r)-generation of the Suzuki group Suz. (English summary) **2004j:20026**
Mel′nikov, O. V. Aspherical pro-p-groups. (Russian. Russian summary) **2004e:20047**
Menegazzo, Federico The number of generators of a finite group. (English summary) **2004j:20047**
Mitchell, J. D. *see* **Campbell, Colin Matthew et al., 2004i:20103**
Moghaddam, Mohammad Reza R. (*with* Salemkar, Ali Reza; Eghdami, Gholam Hossein) On 2-nilpotent multiplier of groups. (English summary) (*see* **2004f:00019**)
Moghani, G. A. *see* **Ashrafi, Ali Reza, 2004c:20026; Darafsheh, Mohammad Reza et al., 2004e:20023** *and* **2004m:20034**
Nekooei, R. (*with* Jabari, A.) Generating alternating groups. (English summary) **2004i:20022**
Noskov, Gen. A. *see* **Alperin, Roger C., 2004a:20044**
Novikova, O. A. *see* **Bezverkhnĭl, V. N., 2004g:20034**
Parker, Christopher *see* **Bray, J. N. et al., 2004e:20021**
Pevzner, I. M. *see* **Luzgarëv, A. Yu.**
Robertson, Edmund F. *see* **Campbell, Colin Matthew et al., 2004f:20037**
Ruini, Beatrice (*with* Spaggiari, Fulvia; Vesnin, A. Yu.) On spines of Seifert fibered manifolds. (English summary) **2004k:57024**
Ruškuc, Nik *see* **Campbell, Colin Matthew et al., 2004i:20103**
Salemkar, Ali Reza *see* **Moghaddam, Mohammad Reza R. et al., (2004f:00019)**
Schwartz, Richard Evan Complex hyperbolic triangle groups. (English summary) **2004b:57002**
Shumyatsky, Pavel Positive laws in fixed points. (English summary) **2004j:20043**
Shutov, A. V. On the number of words of a given length in plane crystallographic groups. (Russian. Russian summary) **2004k:20104**
Spaggiari, Fulvia *see* **Ruini, Beatrice et al., 2004k:57024**
Steinberg, Benjamin A sampler of a topological approach to inverse semigroups. (English summary) **2004k:20131**
Suzuki, Masaaki[2] A class function on the Torelli group. (English summary) **2004k:57002**
Thomas, Simon R. The virtual isomorphism problem for finitely generated groups. (English summary) **2004g:03076**
Timmesfeld, Franz Georg A remark on presentations of certain Chevalley groups. (English summary) **2004c:20081**
— Groups with root-system of type BC_l. **2004f:20035**
Timofeenko, A. V. On generating triples of involutions of large sporadic groups. (Russian. Russian summary) **2004h:20022**
Vesnin, A. Yu. *see* **Ruini, Beatrice et al., 2004k:57024**
Wanderley, Marcus *see* **McCullough, Darryl, 2004c:57031**
Wiedorn, Corinna *see* **Bray, J. N. et al., 2004e:20021**
Wilson, John S. On exponential growth and uniformly exponential growth for groups. **2004k:20085**
Zara, François Generalized reflection groups. II. (English summary) **2004b:20010**

20F06 Cancellation theory; application of van Kampen diagrams [see also 57M05]

Parshikova, E. V. Translation numbers in groups with the condition C(4)&T(4). (Russian. Russian summary)

Wise, Daniel T. The rank of a direct power of a small-cancellation group. (English summary) **2004b:20048**

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Bazhenova, Galina A. Polynomial isoperimetric inequality for groups with function $\Delta(n)$ bounded by $n(\frac{1}{8}-\varepsilon)$. (English summary) **2004i:20054**
Farley, Daniel S. Finiteness and CAT(0) properties of diagram groups. (English summary) **2004b:20057**
Hillman, Jonathan A. Tits alternatives and low dimensional topology. (English summary) **2004g:20058**
Hruska, G. Christopher Nonpositively curved 2-complexes with isolated flats. (English summary) **2004m:20082**
Ol′shanskiĭ, A. Yu. (*with* Sapir, Mark V.) Non-amenable finitely presented torsion-by-cyclic groups. (English summary) **2004f:20061**
Riley, Tim R. The geometry of groups satisfying weak almost-convexity or weak geodesic-combability conditions. (English summary) **2004b:20058**
Sapir, Mark V. *see* **Ol′shanskiĭ, A. Yu., 2004f:20061**

20F10 Word problems, other decision problems, connections with logic and automata [see also 03B25, 03D05, 03D40, 06B25, 08A50, 68Q70]

bin Ahmad, Abd Ghafur The picture problem for 3-complexes. (English summary) **2004m:20062**
— Triviality problem for diagram groups. (English summary)
Bridson, Martin R. (*with* Miller, Charles F., III) Recognition of subgroups of direct products of hyperbolic groups. (English summary) **2004j:20068**
Fordham, S. Blake Minimal length elements of Thompson's group F. (English summary) **2004g:20045**
Grigorchuk, Rostislav (*with* Wilson, John S.) A structural property concerning abstract commensurability of subgroups. (English summary) **2004i:20056**
Gutiérrez, Claudio Exponent of periodicity of word equations in fixed dimension is polynomial. (English summary) **2004e:20054**
Miller, Charles F., III *see* **Bridson, Martin R., 2004j:20068**
Ol′shanskiĭ, A. Yu. (*with* Sapir, Mark V.) The conjugacy problem for groups, and Higman embeddings. (English summary) **2004c:20053**
Sapir, Mark V. *see* **Ol′shanskiĭ, A. Yu., 2004c:20053**
Savchuk, Dmytro M. On word problem in contracting automorphism groups of rooted trees. (English and Ukrainian summaries)
Steinberg, Benjamin The uniform word problem for groups and finite Rees quotients of E-unitary inverse semigroups. (English summary) **2004i:20057**
Van′kov, B. P. On elements of $T(6)$-1/3 groups. (Russian. Russian summary)
Wilson, John S. *see* **Grigorchuk, Rostislav, 2004i:20056**

Items with secondary classifications in 20F10

Ananichev, D. S. (*with* Cherubini, Alessandra; Volkov, Mikhail V.) Image reducing words and subgroups of free groups. (English summary) **2004j:68094**
Borovik, Alexandre V. (*with* Myasnikov, Aleksei G.; Remeslennikov, Vladimir N.) Multiplicative measures on free groups. (English summary) **2004k:20051**
Bridson, Martin R. The geometry of the word problem. **2004g:20056**
— The conjugacy and isomorphism problems for combable groups. (English summary) **2004m:20081**
Cherubini, Alessandra *see* **Ananichev, D. S. et al., 2004j:68094**
Ei, Hiromi Some properties of invertible substitutions of rank d, and higher dimensional substitutions. **2004e:37020**
Engebretsen, Lars (*with* Holmerin, Jonas; Russell, Alexander C.) Inapproximability results for equations over finite groups. (English summary)
Franco, Nuno (*with* González-Meneses, Juan) Computation of centralizers in braid groups and Garside groups. (English summary) **2004k:20076**
González-Meneses, Juan *see* **Franco, Nuno, 2004k:20076**
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20F12 Commutator calculus

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20F14 Derived series, central series, and generalizations

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Moghaddam, Mohammad Reza R. (*with* Rismanchian, Mohammad Reza) Some results on generalized Baer-invariant of groups. (English summary) **2004f:20056**
Pérez-Ramos, M. D. *see* **Arroyo-Jordá, M., 2004m:20036**
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20F16 Solvable groups, supersolvable groups [see also 20D10]

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Artemovich, O. D. Solvable groups with the maximality condition that are not almost nilpotent. (Ukrainian. English, Russian and Ukrainian summaries) **2004f:20064**
— Solvable groups saturated with π-subgroups. (Ukrainian. English, Russian and Ukrainian summaries) **2004b:20049**
— Soluble groups with few non-Baer subgroups. (English summary) **2004j:20070**
Deryabina, G. S. (*with* Krasil′nikov, A. N.) On solvable groups of exponent 4. (Russian. Russian summary) **2004a:20034**
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Eick, Bettina When is the automorphism group of a virtually polycyclic group virtually polycyclic? (English summary) **2004j:20071**
Evans, Martin J. *see* **Dixon, Martyn R. et al., 2004m:20064**
Gupta, Chander Kanta (*with* Timoshenko, E. I.) On the test rank of some free polynilpotent groups. (Russian. Russian summary) **2004c:20056**
Krasil′nikov, A. N. *see* **Deryabina, G. S., 2004a:20034**
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— *see also* **Abdollahi, Alireza**, **2004j:20069**
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Feldman, Arnold Properties of subgroups of solvable groups that imply they are normally embedded. (English summary) **2004e:20027**
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Zhao, Yao Qing On supplements of maximal subgroups of a finite group. (English summary) **2004j:20035**

20F17 Formations of groups, Fitting classes [see also 20D10]

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Pedraza, Tatiana *see* **Ballester-Bolinches, A., 2004b:20051**

20F18 Nilpotent groups [see also 20D15]

Aydın, Hüseyin *see* **Karaduman, Erdal, 2004a:20035** *and* **Özkan, Engin et al., 2004a:20036**
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Catino, F. (*with* Miccoli, M. M.) Local rings whose multiplicative group is nilpotent. (English summary) **2004h:16033**
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Davis, Mark K. (*with* Nesin, Ali) On Suzuki 2-groups of finite Morley rank. (English summary) **2004c:03041**
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Deschamps, Sandra *see* **Dekimpe, Karel, 2004i:37054**
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Ivanova, E. A. On the residual nilpotence of a free product with an amalgamated subgroup of two abelian groups by nilpotent groups. (Russian. Russian summary) **2004j:20054**
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Newell, Martin L. On Sanov 4th-compounds of a group. **2004k:20068**
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— An example of a C-minimal group which is not abelian-by-finite. (English summary) **2004f:03071**
Smith, Howard Torsion-free groups with all non-nilpotent subgroups subnormal. **2004a:20030**

20F19 Generalizations of solvable and nilpotent groups

Chernikov, N. S. (*with* Khmel'nitskiĭ, N. A.) Locally nilpotent groups with weak conditions of π-layered minimality and π-layered maximality. (Russian. English and Ukrainian summaries)
De Falco, Maria Groups whose proper quotients are nilpotent-by-finite. (English summary) **2004d:20033**
Detomi, Eloisa Groups with many subnormal subgroups. (English summary) **2004d:20034**
Eghdami, Gholam Hossein *see* **Moghaddam, Mohammad Reza R., 2004a:20037**
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Khmel'nitskiĭ, N. A. *see* **Chernikov, N. S.**
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Moghaddam, Mohammad Reza R. (*with* Eghdami, Gholam Hossein) Some properties of (locally) n-nilpotent and n-soluble groups. (English summary) **2004a:20037**
Perez, Edmundo R., Jr. A generalization of T-groups. (English summary) **2004m:20067**
— On products of normal hypercyclic subgroups. (English summary) **2004m:20068**
Pinnock, C. J. E. Local systems of locally supersoluble finitary groups. (English summary) **2004e:20058**
Shelah, Saharon *see* **Göbel, Rüdiger et al., 2004j:20074**
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Zhang, Zhi Rang A criterion for local nilpotence in a class of infinite groups. (Chinese. English and Chinese summaries) **2004m:20069**
— *see also* **Yang, Wenze, 2004k:20071**

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Abdollahi, Alireza (*with* Trabelsi, Nadir) Quelques extensions d'un problème de Paul Erdős sur les groupes. (English summary) [Some extensions of a problem of Paul Erdős concerning groups] **2004j:20069**

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Medina, Juan *see* **Iranzo, M. J. et al., 2004b:20031**

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Mikhaĭlov, R. V. Transfinite lower central series of groups: parafree properties and topological applications. (Russian. Russian summary) **2004c:20055**

Nicotera, Chiara *see* **Cutolo, Giovanni, 2004e:20060**

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Pedraza, Tatiana *see* **Ballester-Bolinches, A., 2004b:20051**

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Smith, Howard Torsion-free groups with all non-nilpotent subgroups subnormal. **2004a:20030**

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— *see also* **Kurdachenko, Leonid A., 2004i:20045**

Taeri, Bijan On a combinatorial problem in group theory. (English summary) **2004m:20075**

Trabelsi, Nadir *see* **Abdollahi, Alireza, 2004j:20069**

20F22 Other classes of groups defined by subgroup chains

Artemovich, O. D. Groups with the maximality condition for nonhypercentral subgroups. (Russian. English and Ukrainian summaries) **2004i:20062**

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20F24 FC-groups and their generalizations

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— (*with* Otal, Javier; Subbotīn, Ī. Ya.) Groups with bounded Chernikov conjugate classes of elements. (English and Ukrainian summaries) **2004c:20059**

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— *see also* **Dixon, Martyn R., 2004e:20059** *and* **2004j:20075**

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Otal, Javier *see* **Kurdachenko, Leonid A. et al., 2004c:20059** *and* **2004c:20060**

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— (*with* Otal, Javier; Subbotīn, Ī. Ya.) Baer-like decompositions of modules. (English summary) **2004k:20013**

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Otal, Javier *see* **Kurdachenko, Leonid A. et al., 2004k:20013**

Subbotīn, Ī. Ya. *see* **Kurdachenko, Leonid A. et al., 2004g:20047** *and* **2004k:20013**

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20F28 Automorphism groups of groups [see also 20E36]

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20F67 Hyperbolic groups and nonpositively curved groups

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20F69 Asymptotic properties of groups

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20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H56; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55.}

20G05 Representation theory

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20G30 Linear algebraic groups over global fields and their integers

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20G35 Linear algebraic groups over adèles and other rings and schemes

Cheng, Mei Yu (*with* Yang, Shu Wen) Quasidilation over skewfields. (Chinese. English and Chinese summaries)
Dybkova, E. V. On overdiagonal subgroups of the hyperbolic unitary group over a noncommutative skew field. (Russian. English and Russian summaries) **2004a:20056**
Mennicke, Jens Linear groups over rings of integers. (English summary) **2004i:20086**
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Neuhauser, Markus Kazhdan's property T for the symplectic group over a ring. (English summary) **2004m:22031**

Opolka, Hans Central pairs, Galois theory and automorphic forms. (English summary) **2004k:16046**
Parimala, Raman (*with* Preeti, R.) Hasse principle for classical groups over function fields of curves over number fields. (English summary) **2004c:11046**
Preeti, R. *see* **Parimala, Raman**, **2004c:11046**
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20G40 Linear algebraic groups over finite fields

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Bendel, Christopher P. (*with* Nakano, Daniel K.; Pillen, Cornelius) Extensions for finite Chevalley groups. I. (English summary) **2004m:20095**
Bonnafé, Cédric Actions of relative Weyl groups. I. (English summary) **2004m:20096**
Brooksbank, Peter A. Constructive recognition of classical groups in their natural representation. (English summary) **2004c:20082**
Bryant, Roger M. (*with* Kovács, L. G.; Stöhr, Ralph) Lie powers of modules for $\mathrm{GL}(2, p)$. **2004b:20070**
Carter, Roger Semisimple conjugacy classes and classes in the Weyl group. (English summary) **2004b:20071**
Gao, You (*with* You, Hong) Lattices generated by orbits of subspaces under finite singular classical groups and its characteristic polynomials. (English summary) **2004i:20087**
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Gewurz, Daniele A. Enumeration of orbits on cycles for linear and affine groups. (English summary) **2004e:20084**
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Guralnick, Robert M. (*with* Shareshian, John) Subgroups of $\mathrm{GL}_n(q)$ which fix sublattices of the subspace lattice. **2004b:20072**
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Kantor, William M. (*with* Seress, Ákos) Computing with matrix groups. **2004k:20098**
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Seress, Ákos *see* **Kantor, William M.**, **2004k:20098**
Shareshian, John *see* **Guralnick, Robert M.**, **2004b:20072**
Shpektorov, S. V. *see* **Gramlich, Ralf et al.**, **2004i:20088**
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Stöhr, Ralph *see* **Bryant, Roger M. et al.**, **2004b:20070**
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Aslam, Muhammad[1] *see* **Mushtaq, Qaiser et al.**, **2004m:20060**
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— Éléments unipotents réguliers des sous-groupes de Levi. (English and French summaries) [Regular unipotent elements of Levi subgroups] **2004k:20092**
Braverman, Alexander (*with* Kazhdan, David A.) γ-sheaves on reductive groups. (English summary) **2004m:20085**
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Campbell, Colin Matthew (*with* Campbell, P. P.; Hopson, B. T. K.; Robertson, Edmund F.) On the efficiency of direct powers of $\mathrm{PGL}(2, p)$. (English summary) **2004g:20044**
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Geck, Meinolf ★ An introduction to algebraic geometry and algebraic groups. **2004m:20001**
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Gilpin, Michael J. Factorizations in Z_n and the orders of $\mathrm{GL}(2, Z_n)$ and $\mathrm{SL}(2, Z_n)$. (English summary) **2004e:13002**
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McNinch, George J. Sub-principal homomorphisms in positive characteristic. (English summary) **2004c:20080**
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Ohmori, Joujuu On the Schur indices of characters of finite reductive groups in bad characteristic cases. **2004j:20021**
Parker, Christopher (*with* Rowley, Peter J.) Unique node extremal subgroups in Chevalley groups. (English summary) **2004m:20092**
Prasad, Dipendra (*with* Sanat, Nilabh) On the restriction of cuspidal representations to unipotent elements. **2004e:20078**
Ramsay, Colin *see* **Havas, George**, (**2004j:20001**)
Robertson, Edmund F. *see* **Campbell, Colin Matthew et al.**, **2004g:20044**
Rouquier, Raphaël Complexes de chaînes étales et courbes de Deligne-Lusztig. (English summary) [Complexes of étale chains and Deligne-Lusztig curves] **2004b:20024**
— *see also* **Bonnafé, Cédric**, **2004i:20079**
Rowley, Peter J. *see* **Parker, Christopher**, **2004m:20092**
Sanat, Nilabh *see* **Prasad, Dipendra**, **2004e:20078**
Sarnak, Peter *see* **Davidoff, Giuliana et al.**, **2004f:11001**
Sasaki, Hiroki Mod p cohomology algebra of special linear group. (English summary) **2004d:20051**
Saxl, Jan *see* **Guralnick, Robert M. et al.**, **2004b:20022**
Sin, Peter The p-rank of the incidence matrix of intersecting linear subspaces. (English summary) **2004m:05050**
Szegedy, Balázs Characters of the Borel and Sylow subgroups of classical groups. (English summary) **2004g:20065**
Tiep, Pham Huu *see* **Guralnick, Robert M. et al.**, **2004b:20022**
Ton That Tri The modular representations of linear groups of degree two. (English summary)
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Wan, Zhe-Xian Critical problems in finite vector spaces. (English summary) **2004b:05203**
Wang, Chunsen *see* **Wang, Yangxian et al.**, **2004c:15047**
Wang, Yangxian (*with* Wang, Chunsen; Ma, Changli; Ma, Jianmin) Association schemes of quadratic forms and symmetric bilinear forms. (English summary) **2004c:15047**
Xu, Liang *see* **Li, Weiping[1]**, **2004h:57018**
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Yelkenkaya, Neşe On complex characters of $\mathrm{SL}(4, q)$. (English summary) **2004e:20018**

20G42 Quantum groups (quantized function algebras) and their representations [see also 16W35, 17B37, 81R50]

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bilinear form. (English summary) **2004g:20068**

Domokos, M. (*with* Fioresi, R.; Lenagan, T. H.) Orbits for the adjoint coaction on quantum matrices. (English summary) **2004j:20095**

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Fioresi, R. On algebraic supergroups and quantum deformations. (English summary) **2004j:20096**

— *see also* **Domokos, M. et al., 2004j:20095**

Goodearl, K. R. (*with* Lenagan, T. H.) Winding-invariant prime ideals in quantum 3×3 matrices. (English summary) **2004g:20069**

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Ogievetskiĭ, O. V. (*with* Vahlas, A.) The relation between two types of characteristic equations for quantum matrices. (English summary) **2004j:20097**

Schmüdgen, Konrad (*with* Wagner, Elmar) Hilbert space representations of cross product algebras. (English summary) **2004c:20084**

Stokman, Jasper V. The quantum orbit method for generalized flag manifolds. (English summary) **2004e:20086**

Vahlas, A. *see* **Ogievetskiĭ, O. V., 2004j:20097**

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Zou, Yi Ming Quantum super spheres and their transformation groups, representations, and little t-Jacobi polynomials. (English summary) **2004e:20087**

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Cauchon, Gérard Effacement des dérivations et spectres premiers des algèbres quantiques. (English summary) [Derivative elimination and prime spectra of quantum algebras] **2004g:16044**

— Spectre premier de $O_q(M_n(k))$: image canonique et séparation normale. (English summary) [Prime spectrum of $O_q(M_n(k))$: canonical image and normal separation] **2004g:16045**

Chakrabarti, Amitabha[1] (*with* Chakrabarti, Ranabir) Modified braid equations, Baxterizations and noncommutative spaces for the quantum groups $GL_q(N)$, $SO_q(N)$, and $Sp_q(N)$. (English summary) **2004b:81075**

— Canonical factorization and diagonalization of Baxterized braid matrices: explicit constructions and applications. (English summary) **2004h:17011**

Chakrabarti, Ranabir *see* **Chakrabarti, Amitabha**[1], **2004b:81075**

Cheng, Eugenia The category of opetopes and the category of opetopic sets. (English summary) **2004i:18010**

Dąbrowski, Ludwik (*with* Reina, Cesare) Quantum spin coverings and statistics. (English summary) **2004h:81125**

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Dung, Nguyễn Phuong (*with* Phùng Hồ Hái) On the Poincaré series of quadratic algebras associated to Hecke symmetries. **2004g:16027**

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Phùng Hồ Hái *see* **Dung, Nguyễn Phuong, 2004g:16027**

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20G45 Applications to physics

Items with secondary classifications in 20G45

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20G99 None of the above, but in this section

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Li, Chi-Kwong *see* **Guralnick, Robert M. et al., 2004k:15005**

Li, Zhenheng (*with* Renner, Lex E.) The Renner monoids and cell decompositions of the symplectic algebraic monoids. (English summary) **2004c:20113**

Malkin, Anton Tensor product varieties and crystals: the *ADE* case. (English summary) **2004e:17003**

Renner, Lex E. *see* **Li, Zhenheng, 2004c:20113**

Rodman, Leiba *see* **Guralnick, Robert M. et al., 2004k:15005**

20Hxx Other groups of matrices [see also 15A30]

20H05 Unimodular groups, congruence subgroups [see also 11F06, 19B37, 22E40, 51F20]

Abért, Miklós (*with* Nikolov, Nikolay; Szegedy, Balázs) Congruence subgroup growth of arithmetic groups in positive characteristic. (English summary) **2004a:20057**

Lang, Mong Lung Groups commensurable with the modular group. (English summary) **2004k:20099**

Mason, A. W. (*with* Schweizer, Andreas) The minimum index of a non-congruence subgroup of SL_2 over an arithmetic domain. (English summary) **2004e:20085**

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Nikolov, Nikolay *see* **Abért, Miklós et al., 2004a:20057**

Schweizer, Andreas *see* **Mason, A. W., 2004c:20085**

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Items with secondary classifications in 20H05

Lascurain Orive, Antonio Some presentations for $\overline{\Gamma}_0(N)$. (English summary) **2004a:11031**

Liebeck, Martin W. (*with* Shalev, Aner) Residual properties of the modular group and other free products. (English summary) **2004i:20050**

Mennicke, Jens Linear groups over rings of integers. (English summary) **2004i:20086**

Shalev, Aner *see* **Liebeck, Martin W., 2004i:20050**

20H10 Fuchsian groups and their generalizations [see also 11F06, 22E40, 30F35, 32Nxx]

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Garipov, R. M. An algebraic method for computing crystallographic groups. II. (Russian. Russian summary) **2004a:20059**
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20H20 Other matrix groups over fields

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Kurdachenko, Leonid A. (*with* Subbotīn, Ī. Ya.) On some infinite dimensional linear groups. (English summary) (*see* **2004j:20002**)
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20H25 Other matrix groups over rings

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— On subgroups of the general linear group over the skew field of quaternions that include the symplectic group. (Russian. Russian summary) **2004b:20076**
Dang, Ping'an *see* **Zhang, Cheng Yi et al., 2004j:20104**
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Phillips, Richard E. (*with* Wald, Jeanne) Finitary groups and rings. (English summary) **2004c:20091**
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Wald, Jeanne *see* **Phillips, Richard E., 2004c:20091**
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Yan, Zhen Biao (*with* Luo, Zhi Hua) The length of generating elements of pseudo-symplectic groups over local rings. (Chinese. English and Chinese summaries)
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Szczepański, Andrzej *see* **Malfait, Wim, 2004m:20098**

20H30 Other matrix groups over finite fields

Earnest, A. G. (*with* Sears, Bradley S.) Minimal generating sets for unitary groups over finite fields. **2004g:20070**
Sears, Bradley S. *see* **Earnest, A. G., 2004g:20070**

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20Jxx Connections with homological algebra and category theory

20J05 Homological methods in group theory

Alp, Murat (*with* Gürmen, Özgün) Pushouts of profinite crossed modules and cat^1-profinite groups. (English summary) **2004k:20106**
Berrick, A. J. (*with* Hillman, Jonathan A.) Perfect and acyclic subgroups of finitely presentable groups. (English summary) **2004h:20071**
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Anvariyeh, S. M. (*with* Davvaz, B.) Quasi extension of groups. (English summary) **2004a:20031**
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Casas Miras, José Manuel *see* **Vieites Rodríguez, A. M. et al., 2004j:18006**
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— *see also* **Cegarra, Antonio M., 2004e:18011**
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Greenlees, J. P. C. *see* **Bruner, R. R., 2004e:19003**
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Hillman, Jonathan A. Tits alternatives and low dimensional topology. (English summary) **2004g:20058**
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Ladra González, Manuel *see* **Arias, D. et al., 2004h:19001** *and* **Vieites Rodríguez, A. M. et al., 2004j:18006**
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López López, M. P. *see* **R.-Grandjeán L.-Valcárcel, Alfredo, 2004f:18016**
Lorensen, Karl Group extensions whose relative p-localizations split. (English summary) **2004d:20061**
Martínez-Pérez, Conchita On p-chief factors and extensions of $\mathbb{K}G$-modules. (English summary) **2004a:20015**
Miller, Charles F., III *see* **Bridson, Martin R. et al., 2004b:20038** *and* **Baumslag, Gilbert et al., 2004e:20053**

Peschke, Georg *see* **Blanc, David**, **2004i:55013**
R.-Grandjeán L.-Valcárcel, Alfredo (*with* López López, M. P.) $H^q_2(T, G, \partial)$ and q-perfect crossed modules. (English summary) **2004f:18016**
— *see also* **Arias, D. et al.**, **2004h:19001**
del Río, Aurora *see* **Garzón, Antonio R.**, **2004c:18013**
Rouquier, Raphaël (*with* Zimmermann, Alexander) Picard groups for derived module categories. **2004h:16003**
Short, Hamish *see* **Bridson, Martin R. et al.**, **2004b:20038**
Stipsicz, András I. *see* **Korkmaz, Mustafa**, **2004c:57033**
Vermani, L. R. ★ An elementary approach to homological algebra. **2004d:16015**
Vieites Rodríguez, A. M. (*with* Casas Miras, José Manuel; Ladra González, Manuel) N-crossed extensions of crossed modules. (English summary) **2004j:18006**
Zimmermann, Alexander *see* **Rouquier, Raphaël**, **2004h:16003**
Zvengrowski, Peter *see* **Bryden, J.**, **2004b:57015**

20J06 Cohomology of groups

Adem, Alejandro (*with* Milgram, R. James) ★ Cohomology of finite groups. **2004k:20109**
Andrade, Maria Gorete Carreira *see* **Fanti, Erminia de Lourdes Campello et al.**, **2004f:20091**
Beligiannis, Apostolos (*with* Krause, Henning) Realizing maps between modules over Tate cohomology rings. (English summary) **2004j:20106**
Burichenko, Vladimir P. Extensions of cocycles, Cohen-Macaulay geometries, and a vanishing theorem for cohomology of alternating groups. (English summary) **2004i:20097**
Carlson, Jon F. (*with* Townsley, Lisa; Valero-Elizondo, Luis; Zhang, Mucheng) ★ Cohomology rings of finite groups. **2004k:20110**
Conduché, Daniel (*with* Inassaridze, Hvedri; Inassaridze, Niko) Mod q cohomology and Tate-Vogel cohomology of groups. (English summary) **2004m:20102**
Dehornoy, Patrick (*with* Lafont, Yves) Homology of Gaussian groups. (English and French summaries) **2004g:20072**
Fanti, Erminia de Lourdes Campello (*with* Andrade, Maria Gorete Carreira; Papani, Fabiana Magda Garcia) A relative invariant, duality and splitting of groups. (English and Portuguese summaries) **2004f:20091**
Green, David J. On Carlson's depth conjecture in group cohomology. (English summary) **2004h:20072**
Inassaridze, Hvedri *see* **Conduché, Daniel et al.**, **2004m:20102**
Inassaridze, Niko *see* **Conduché, Daniel et al.**, **2004m:20102**
Jensen, Craig A. Homology of holomorphs of free groups. (English summary) **2004k:20111**
Jo, Jang Hyun Projective complete cohomological dimension of a group. **2004k:20112**
Krause, Henning *see* **Beligiannis, Apostolos**, **2004j:20106**
Lafont, Yves *see* **Dehornoy, Patrick**, **2004g:20072**
Lorensen, Karl Group extensions whose relative p-localizations split. (English summary) **2004d:20061**
Martino, John (*with* Priddy, Stewart) Group extensions and automorphism group rings. (English summary) **2004e:20091**
Milgram, R. James *see* **Adem, Alejandro**, **2004k:20109**
Pakianathan, Jonathan (*with* Yalçın, Ergün) On nilpotent ideals in the cohomology ring of a finite group. (English summary) **2004d:20062**
Papani, Fabiana Magda Garcia *see* **Fanti, Erminia de Lourdes Campello et al.**, **2004f:20091**
Phạm Anh Minh Nilpotency degree of integral cohomology classes of p-groups. (English summary) **2004a:20062**
— Extraspecial 2-groups and mod-2 cohomology lengths. (English summary) **2004h:20073**
— (*with* Symonds, Peter) The cohomology of pro-p groups with a powerfully embedded subgroup. (English summary) **2004k:20113**
Priddy, Stewart *see* **Martino, John**, **2004e:20091**
Sahleh, H. Semidirect product of topological groups and second cohomology. (English summary) **2004e:20092**
Sasaki, Hiroki Mod 7 cohomology algebra of Held simple group. (English summary) **2004i:20098**
— Transfers and regular elements in cohomology algebras of finite groups. (English summary) **2004c:20093**
Scott, Leonard L. Some new examples in 1-cohomology. (English summary) **2004f:20092**
Sharma, Sneh Some remarks on polynomial 2-cocycles. (English summary)
Symonds, Peter *see* **Phạm Anh Minh**, **2004k:20113**
Townsley, Lisa *see* **Carlson, Jon F. et al.**, **2004k:20110**
Valero-Elizondo, Luis *see* **Carlson, Jon F. et al.**, **2004k:20110**
Yalçın, Ergün *see* **Pakianathan, Jonathan**, **2004d:20062**
Zhang, Mucheng *see* **Carlson, Jon F. et al.**, **2004k:20110**

Items with secondary classifications in 20J06

Bendel, Christopher P. (*with* Nakano, Daniel K.; Pillen, Cornelius) Extensions for finite Chevalley groups. I. (English summary) **2004m:20095**
Burichenko, Vladimir P. On homological properties of locally polar spaces. (English summary) **2004g:57004**
Case, Adam (*with* Snaith, Victor P.) Explicit Brauer induction and the Glauberman correspondence. (English summary) **2004c:20016**
Cegarra, Antonio M. (*with* Garzón, Antonio R.) Equivariant group cohomology and Brauer group. (English summary) **2004i:12007**
— Cohomology of diagrams of groups. The classification of (co)fibred categorical groups. (English summary) **2004b:18015**
— (*with* Inassaridze, Hvedri) Homology of groups with operators. (English summary)
Ellis, Graham J. A Magnus-Witt type isomorphism for non-free groups. (English summary) **2004c:20063**
Fayers, Matthew (*with* Martin, Stuart) General vertices in ordinary quivers for symmetric group algebras. (English summary) **2004f:20028**
Feng, Yan-qin *see* **Li, Shu Chao et al.**, **2004g:57005**
Garzón, Antonio R. *see* **Cegarra, Antonio M.**, **2004i:12007**
Generalov, A. I. Cohomology of algebras of semidihedral type. III. The series $SD(3K)$. (Russian. English and Russian summaries) **2004m:16016**
Hilton, P. J. The birth of homological algebra. **2004d:16019**
Howson, Susan Euler characteristics as invariants of Iwasawa modules. **2004c:11202**
Inassaridze, Hvedri Higher non-abelian cohomology of groups. (English summary) **2004a:18012**
— *see also* **Cegarra, Antonio M.**
Jackson, Michael A. A quotient of the set $[BG, B\mathrm{U}(n)]$ for a finite group G of small rank. (English summary) **2004j:55011**
Karlsson, Anders² Some remarks concerning harmonic functions on homogeneous graphs. (English summary) **2004m:60098**
Korkmaz, Mustafa (*with* Stipsicz, András I.) The second homology groups of mapping class groups of oriented surfaces. **2004c:57033**
Kovács, L. G. A non-extendable abstract kernel. (English summary) **2004j:20063**
Li, Shu Chao (*with* Feng, Yan-qin; Mao, Jing Zhong) A new method for computing the 1-dimensional homology group of a given 2-complex. (English and Chinese summaries) **2004g:57005**
Lorenz, Martin (*with* Reichstein, Zinovy; Rowen, Louis H.; Saltman, D. J.) Fields of definition for division algebras. (English summary) **2004j:16022**
Mao, Jing Zhong *see* **Li, Shu Chao et al.**, **2004g:57005**
Martin, Stuart *see* **Fayers, Matthew**, **2004f:20028**
Martínez-Pérez, Conchita On p-chief factors and extensions of $\mathbb{K}G$-modules. (English summary) **2004a:20015**
Mel′nikov, O. V. Aspherical pro-p-groups. (Russian. Russian summary) **2004e:20047**
Nakano, Daniel K. *see* **Bendel, Christopher P. et al.**, **2004m:20095**
Pakianathan, Jonathan (*with* Witherspoon, Sarah) Hochschild cohomology and Linckelmann cohomology for blocks of finite groups. (English summary) **2004d:20010**
Park, HeeSook Relative bounded cohomology. (English summary) **2004e:55008**
Pillen, Cornelius *see* **Bendel, Christopher P. et al.**, **2004m:20095**
Piriou, Laurent (*with* Schwartz, Lionel) A property of the degree filtration of polynomial functors. (English summary) **2004d:55017**
Puls, Michael J. Group cohomology and L^p-cohomology of finitely generated groups. (English summary) **2004e:43003**
Reichstein, Zinovy *see* **Lorenz, Martin et al.**, **2004j:16022**
Rowen, Louis H. *see* **Lorenz, Martin et al.**, **2004j:16022**
Saltman, D. J. *see* **Lorenz, Martin et al.**, **2004j:16022**
Sasaki, Hiroki Mod p cohomology algebra of special linear group. (English summary) **2004d:20051**
Schwartz, Lionel *see* **Piriou, Laurent**, **2004d:55017**
Snaith, Victor P. *see* **Case, Adam**, **2004c:20016**
Stipsicz, András I. *see* **Korkmaz, Mustafa**, **2004c:57033**
Vermani, L. R. ★ An elementary approach to homological algebra. **2004d:16015**
Witherspoon, Sarah *see* **Pakianathan, Jonathan**, **2004d:20010**
Zaldívar, Felipe ★ Cohomología de Galois de campos locales. (Spanish. Spanish summary) [Galois cohomology of local fields] **2004a:11124**

20J15 Category of groups

Descheemaeker, A. (*with* Scevenels, Dirk) Closure operations and localization of groups. (English summary) **2004g:20073**
Garzón, Antonio R. (*with* del Río, Aurora) Low-dimensional cohomology for categorical groups. (French summary) **2004k:20114**
del Río, Aurora *see* **Garzón, Antonio R.**, **2004k:20114**
Scevenels, Dirk *see* **Descheemaeker, A.**, **2004g:20073**

Items with secondary classifications in 20J15

Asai, Tsunenobu (*with* Niwasaki, Takashi; Takegahara, Yugen) Crossed homomorphisms from rank-2 abelian to exceptional p-groups. (English summary) **2004k:20042**
Janelidze, George Internal crossed modules. (English summary) **2004e:18012**
Niwasaki, Takashi *see* **Asai, Tsunenobu et al.**, **2004k:20042**
Rosenberg, Alexander L. Reconstruction of groups. **2004c:22010**
Takegahara, Yugen *see* **Asai, Tsunenobu et al.**, **2004k:20042**

20J99 None of the above, but in this section

Items with secondary classifications in 20J99

Brown, Ronald (*with* Moore, E. J.; Porter, Timothy; Wensley, C. D.) Crossed complexes, and free crossed resolutions for amalgamated sums and HNN-extensions of groups. (English summary) **2004g:55017**
— (*with* Bullejos, M.; Porter, Timothy) Crossed complexes, free crossed resolutions and graph products of groups. (English summary) **2004h:55015**
Bullejos, M. *see* **Brown, Ronald et al.**, **2004h:55015**
Moore, E. J. *see* **Brown, Ronald et al.**, **2004g:55017**
Porter, Timothy *see* **Brown, Ronald et al.**, **2004g:55017** *and* **2004h:55015**
Wensley, C. D. *see* **Brown, Ronald et al.**, **2004g:55017**

20Kxx Abelian groups

20K01 Finite abelian groups

Baginski, Paul (*with* Chapman, Scott T.; McDonald, Kathryn; Pudwell, Lara) On cross numbers of minimal zero sequences in certain cyclic groups. (English summary) **2004j:20107**
Chapman, Scott T. *see* **Baginski, Paul et al.**, **2004j:20107**
Corrádi, K. (*with* Szabó, Sándor) Periodic factorization of a finite abelian 2-group. (English summary) **2004c:20094**
Hassler, Wolfgang A note on half-factorial subsets of finite cyclic groups. (English summary) **2004g:20074**
Klopsch, Benjamin (*with* Lev, Vsevolod F.) How long does it take to generate a group? (English summary) **2004e:20093**

Lev, Vsevolod F. *see* **Klopsch, Benjamin**, **2004e:20093**
McDonald, Kathryn *see* **Baginski, Paul et al.**, **2004j:20107**
Pudwell, Lara *see* **Baginski, Paul et al.**, **2004j:20107**
Szabó, Sándor *see* **Corrádi, K.**, **2004c:20094**

Items with secondary classifications in 20K01

Bajnok, Béla (*with* Ruzsa, Imre Z.) The independence number of a subset of an abelian group. (English summary) **2004e:11018**
— The spanning number and the independence number of a subset of an abelian group. (English summary) **2004m:11011**
Chin, A. Y. M. Exhaustion numbers of subsets of abelian groups. (English summary) **2004c:11014**
— (*with* Ng, W. S.) On almost arithmetic progression subsets of cyclic groups. (English summary)
Damgård, Ivan (*with* Koprowski, Maciej) Generic lower bounds for root extraction and signature schemes in general groups. (English summary) **2004f:94059**
Delorme, Charles (*with* Marquez, Isabel; Ordaz, Oscar; Ortuño, Asdrubal) Existence conditions for barycentric sequences. (English summary) **2004m:11026**
Eliahou, Shalom (*with* Kervaire, Michel) A note on the Hopf-Stiefel function. **2004i:11015b**
— (*with* Kervaire, Michel; Plagne, Alain) Optimally small sumsets in finite abelian groups. (English summary) **2004i:11015c**
Feng, Yan-Quan (*with* Liu, Yan Pei; Xu, Ming Yao) On the isomorphisms of Cayley graphs of abelian groups. (English summary) **2004c:05089**
Gao, Wei Dong (*with* Geroldinger, Alfred) On zero-sum sequences in $\mathbb{Z}/n\mathbb{Z} \oplus \mathbb{Z}/n\mathbb{Z}$. (English summary) **2004m:11015**
Geroldinger, Alfred *see* **Gao, Wei Dong**, **2004m:11015**
Guo, Shu Guang On sumsets $A + B$ with $|A| + |B| = |G|$. (English summary) **2004k:11021**
Hamidoune, Yahya Ould (*with* Plagne, Alain) A new critical pair theorem applied to sum-free sets in abelian groups. (English summary) **2004m:11168**
Kervaire, Michel *see* **Eliahou, Shalom et al.**, **2004i:11015b** *and* **2004i:11015c**
Koprowski, Maciej *see* **Damgård, Ivan**, **2004f:94059**
Laurinčikas, Antanas On the zeta function for finite abelian groups. (Russian. Russian and Lithuanian summaries) **2004b:11132**
Lev, Vsevolod F. Progression-free sets in finite abelian groups. (English summary) **2004k:11023**
Liu, Yan Pei *see* **Feng, Yan-Quan et al.**, **2004c:05089**
Llano, Bernardo Small sumsets in a prime order group. (English summary) **2004e:11112**
Marquez, Isabel *see* **Delorme, Charles et al.**, **2004m:11026**
Moews, David The abstract structure of the group of games. (English summary) **2004b:91034**
Ng, W. S. *see* **Chin, A. Y. M.**
Ordaz, Oscar *see* **Delorme, Charles et al.**, **2004m:11026**
Ortuño, Asdrubal *see* **Delorme, Charles et al.**, **2004m:11026**
Plagne, Alain Additive number theory sheds extra light on the Hopf-Stiefel ∘ function. (English summary) **2004i:11015a**
— *see also* **Eliahou, Shalom et al.**, **2004i:11015c** *and* **Hamidoune, Yahya Ould**, **2004m:11168**
Quinlan, Rachel Real elements and real-valued characters of covering groups of elementary abelian 2-groups. (English summary) **2004m:20020**
Ruzsa, Imre Z. *see* **Bajnok, Béla**, **2004e:11018**
Xu, Ming Yao *see* **Feng, Yan-Quan et al.**, **2004c:05089**

20K10 Torsion groups, primary groups and generalized primary groups

Hill, Paul The development of the theory of p-groups. **2004d:20063**
Schultz, Phillip (*with* Sebel′din, A. M.; Sylla, A. L.) Determination of torsion abelian groups by their automorphism groups. (English summary) **2004c:20095**
Sebel′din, A. M. *see* **Schultz, Phillip et al.**, **2004c:20095**
Sylla, A. L. *see* **Schultz, Phillip et al.**, **2004c:20095**

Items with secondary classifications in 20K10

Danchev, P. V. Quasi-completeness in commutative modular group algebras. (English summary)
— The direct factor problem for modular group algebras of isolated direct sums of torsion-complete abelian groups. (English summary) **2004m:16037**
— Commutative group algebras of direct sums of σ-summable abelian p-groups. **2004m:20010**
Göbel, Rüdiger (*with* May, Warren Lee[2]) Cancellation of direct sums of countable abelian p-groups. (English summary) **2004d:20065**
— (*with* May, Warren Lee[2]) Modular group algebras of $\aleph_1$-separable p-groups. (English summary) **2004e:20007**
Goldsmith, B. (*with* hÓgáin, S. Ó.) On torsion and mixed minimal abelian groups. (English summary) **2004e:20099**
May, Warren Lee[2] *see* **Göbel, Rüdiger**, **2004d:20065** *and* **2004e:20007**
hÓgáin, S. Ó. *see* **Goldsmith, B.**, **2004e:20099**

20K15 Torsion-free groups, finite rank

De Vivo, Clorinda (*with* Metelli, Claudia) Z_2-linear order-preserving transformations of tents. (English summary) **2004e:20098**
Dittmann, Ulrich Tight subgroups of almost completely decomposable groups. (English summary) **2004d:20064**
Dugas, Manfred (*with* Rangaswamy, K. M.) Completely decomposable abelian groups with a distinguished cd subgroup. (English summary) **2004e:20094**
Mader, Adolf (*with* Nongxa, L. G.; Vinsonhaler, Charles) Sharp types revisited. (English summary) **2004e:20095**
Metelli, Claudia *see* **De Vivo, Clorinda**, **2004e:20098**
Mutzbauer, Otto Quotient stable uniform groups. (English summary) **2004b:20079**
Nahler, Michael Isomorphism classes of uniform groups. (English summary) **2004e:20096**
Nongxa, L. G. *see* **Mader, Adolf et al.**, **2004e:20095**
O'Meara, K. C. (*with* Vinsonhaler, Charles) K_0-like constructions for almost completely decomposable groups. (English summary) **2004b:20080**
Ould Beddi, Mohamed Abdallahi (*with* Strüngmann, Lutz) Tight subgroups in torsion-free abelian groups. (English summary) **2004e:20097**
Rangaswamy, K. M. *see* **Dugas, Manfred**, **2004e:20094**
Strüngmann, Lutz *see* **Ould Beddi, Mohamed Abdallahi**, **2004e:20097**
Thomas, Simon R. On the complexity of the classification problem for torsion-free abelian groups of rank two. **2004i:20099**
— The classification problem for torsion-free abelian groups of finite rank. **2004b:20081**
Tsarev, A. V. The pseudorational relation module of a group. (Russian. Russian summary) **2004i:20100**
Vinsonhaler, Charles *see* **O'Meara, K. C.**, **2004b:20080** *and* **Mader, Adolf et al.**, **2004e:20095**

Items with secondary classifications in 20K15

Ari, Kamil A different characterization of $U_1(\mathbf{Z}C_8)$. (English summary) **2004j:16034**
Dugas, Manfred (*with* Feigelstock, Shalom) A-rings. (English summary) **2004h:20076**
Feigelstock, Shalom *see* **Dugas, Manfred**, **2004h:20076**
Giovannitti, A. (*with* Goeters, H. Patrick; Kehrein, A.) Prebalanced and balanced sequences of modules over domains. (English summary) **2004f:13019**
Goeters, H. Patrick *see* **Giovannitti, A. et al.**, **2004f:13019**
Goldsmith, B. (*with* Meehan, C.; Wallutis, Simone L.) On unit sum numbers of rational groups. (English summary) **2004g:20076**
Kehrein, A. *see* **Giovannitti, A. et al.**, **2004f:13019**
Meehan, C. *see* **Goldsmith, B. et al.**, **2004g:20076**
Okuyama, Takashi Quasi-purifiable subgroups and height-matrices. (English summary) **2004c:20098**
Shelah, Saharon (*with* Strüngmann, Lutz) Cotorsion theories cogenerated by $\aleph_1$-free abelian groups. (English summary) **2004f:20094**
— (*with* Strüngmann, Lutz) It is consistent with ZFC that B_1-groups are not B_2. (English summary) **2004j:20108**
Strüngmann, Lutz *see* **Shelah, Saharon**, **2004f:20094** *and* **2004j:20108**
Wallutis, Simone L. *see* **Goldsmith, B. et al.**, **2004g:20076**

20K20 Torsion-free groups, infinite rank

Bican, Ladislav Pure subgroups. (English summary) **2004b:20082**
Breaz, Simion Self-small torsion free abelian groups.
Dugas, Manfred (*with* Vinsonhaler, Charles) Two-sided E-rings. (English summary) **2004h:20074**
Enochs, Edgar E. (*with* García-Rozas, J. R.; Oyonarte, Luis; Jenda, Overtoun M. G.) Conormal morphisms. (English summary) **2004i:20101**
García-Rozas, J. R. *see* **Enochs, Edgar E. et al.**, **2004i:20101**
Göbel, Rüdiger (*with* Shelah, Saharon; Strüngmann, Lutz) Almost-free E-rings of cardinality $\aleph_1$. (English summary) **2004f:20093**
Jenda, Overtoun M. G. *see* **Enochs, Edgar E. et al.**, **2004i:20101**
Oyonarte, Luis *see* **Enochs, Edgar E. et al.**, **2004i:20101**
Shelah, Saharon (*with* Strüngmann, Lutz) Cotorsion theories cogenerated by $\aleph_1$-free abelian groups. (English summary) **2004f:20094**
— (*with* Strüngmann, Lutz) It is consistent with ZFC that B_1-groups are not B_2. (English summary) **2004j:20108**
— *see also* **Göbel, Rüdiger et al.**, **2004f:20093**
Strüngmann, Lutz *see* **Göbel, Rüdiger et al.**, **2004f:20093**; **Shelah, Saharon**, **2004f:20094** *and* **2004j:20108**
Vinsonhaler, Charles *see* **Dugas, Manfred**, **2004h:20074**

Items with secondary classifications in 20K20

Barioli, Francesco (*with* De Vivo, Clorinda; Metelli, Claudia) On vector spaces with distinguished subspaces and redundant base. (English summary) **2004j:15001**
Danchev, P. V. Quasi-completeness in commutative modular group algebras. (English summary)
De Vivo, Clorinda *see* **Barioli, Francesco et al.**, **2004j:15001**
Dugas, Manfred (*with* Feigelstock, Shalom) A-rings. (English summary) **2004h:20076**
Feigelstock, Shalom *see* **Dugas, Manfred**, **2004h:20076**
Metelli, Claudia *see* **Barioli, Francesco et al.**, **2004j:15001**
Ould Beddi, Mohamed Abdallahi (*with* Strüngmann, Lutz) Tight subgroups in torsion-free abelian groups. (English summary) **2004e:20097**
Shelah, Saharon (*with* Strüngmann, Lutz) Kulikov's problem on universal torsion-free abelian groups. (English summary) **2004f:20096**
Strüngmann, Lutz On the existence of rings with prescribed endomorphism group. (English summary) **2004i:16041**
— *see also* **Ould Beddi, Mohamed Abdallahi**, **2004e:20097** *and* **Shelah, Saharon**, **2004f:20096**

20K21 Mixed groups

Albrecht, Ulrich (*with* Wickless, William J.) Finitely generated and cogenerated QD groups. (English summary) **2004m:20103**
Chekhlov, A. R. On quasicomplete mixed groups. (Russian. English and Russian summaries) **2004b:20083**
Göbel, Rüdiger (*with* May, Warren Lee[2]) Cancellation of direct sums of countable abelian p-groups. (English summary) **2004d:20065**
Goldsmith, B. (*with* hÓgáin, S. Ó.) On torsion and mixed minimal abelian groups. (English summary) **2004e:20099**
May, Warren Lee[2] *see* **Göbel, Rüdiger**, **2004d:20065**
Megibben, Charles (*with* Ullery, William) Isotype Warfield subgroups of global Warfield groups. (English summary) **2004c:20096**
— (*with* Ullery, William) The sequentially pure projective dimension of global groups with decomposition bases. (English summary) **2004m:20104**
hÓgáin, S. Ó. *see* **Goldsmith, B.**, **2004e:20099**
Okuyama, Takashi Mixed groups in abelian group theory. (English summary) **2004c:20097**

Ullery, William *see* **Megibben, Charles, 2004c:20096** *and* **2004m:20104**
Wickless, William J. Direct sums of quotient divisible groups. (English summary) **2004e:20100**
— *see also* **Albrecht, Ulrich, 2004m:20103**

20K25 Direct sums, direct products, etc.

Corner, A. L. S. (*with* Göbel, Rüdiger) Small almost free modules with prescribed topological endomorphism rings. (English summary) **2004e:20101**
Göbel, Rüdiger *see* **Corner, A. L. S., 2004e:20101**

Items with secondary classifications in 20K25

Göbel, Rüdiger (*with* May, Warren Lee[2]) Cancellation of direct sums of countable abelian p-groups. (English summary) **2004d:20065**
Jung, Soon-Mo Representation of groups by subgroups. (English summary)
May, Warren Lee[2] *see* **Göbel, Rüdiger, 2004d:20065**
Mruczek, Krystyna Subdirectly irreducible P-compatible abelian groups. (English summary) **2004c:08013**
O'Meara, K. C. (*with* Vinsonhaler, Charles) K_0-like constructions for almost completely decomposable groups. (English summary) **2004b:20080**
Vinsonhaler, Charles *see* **O'Meara, K. C., 2004b:20080**

20K27 Subgroups

Jung, Soon-Mo Representation of groups by subgroups. (English summary)
Okuyama, Takashi Quasi-purifiable subgroups and height-matrices. (English summary) **2004c:20098**

Items with secondary classifications in 20K27

Hill, Paul (*with* Megibben, Charles) Baer's extension equivalence. (English summary) **2004k:20115**
Megibben, Charles (*with* Ullery, William) Isotype Warfield subgroups of global Warfield groups. (English summary) **2004c:20096**
— *see also* **Hill, Paul, 2004k:20115**
Okuyama, Takashi Mixed groups in abelian group theory. (English summary) **2004c:20097**
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Károlyi, Gyula The Erdős-Heilbronn problem in abelian groups. (English summary) **2004m:11028**
Möller, Bodo Algorithms for multi-exponentiation. (English summary) **2004m:68039**
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20L05 Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05.}

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20Mxx Semigroups

20M05 Free semigroups, generators and relations, word problems

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Çevik, A. Sinan The p-Cockcroft property of the semi-direct products of monoids. (English summary) **2004c:20099**
Deloup, Florian Une description combinatoire du monoïde des enlacements. (English and French summaries) [A combinatorial description of the monoid of linkings] **2004h:20077**
Duncan, Andrew (*with* Gilman, Robert H.) Word hyperbolic semigroups. (English summary) **2004m:20106**
Fernandes, Cristina G. (*with* Green, Edward L.[1]; Mandel, Arnaldo) From monomials to words to graphs. (English summary) **2004m:20107**
FitzGerald, D. G. A presentation for the monoid of uniform block permutations. (English summary) **2004h:20078**
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Harju, Tero (*with* Nowotka, Dirk) The equation $x^i = y^j z^k$ in a free semigroup. (English summary)
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— (*with* Kobayashi, Yuji) Monoids with subgroups of finite index and the braid inverse monoid. (English summary) **2004b:20084**
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Néraud, Jean (*with* Selmi, Carla) Free monoid theory: maximality and completeness in arbitrary submonoids. (English summary)
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Bouillard, Anne (*with* Mairesse, Jean) Generating series of the trace group. (English summary) (*see* **2004j:68010**)
Dehornoy, Patrick (*with* Dynnikov, I. A.; Rolfsen, Dale; Wiest, Bert) ★ Why are braids orderable? (English, French, German and Russian summaries) **2004e:20062**
Dynnikov, I. A. *see* **Dehornoy, Patrick et al., 2004e:20062**
Easdown, D. (*with* Shneerson, L. M.) Principal Rees quotients of free inverse semigroups. (English summary) **2004f:20108**
Fong, Yuen *see* **Bokut, L. et al., 2004j:16027**
Gutiérrez, Claudio Equations in free semigroups with involution and their relation to equations in free groups. (English summary) **2004d:68056**
Harju, Tero Decision questions on integer matrices. (English summary) **2004b:03020**
Higgins, Peter M. (*with* Howie, John M.; Mitchell, J. D.; Ruškuc, Nik) Countable versus uncountable ranks in infinite semigroups of transformations and relations. (English summary) **2004h:20093**
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— (*with* Seif, Steve) Counting techniques to label constant weight Gray codes with links to minimal generating sets of semigroups. (English summary) **2004e:05111**
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Mitchell, J. D. *see* **Higgins, Peter M. et al., 2004h:20093**
Novikov, B. V. Principal quasi-ideals of cohomological dimension 1. (English summary) **2004m:20127**
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Popov, Vladimir Yur'evich On independently decomposable systems of semigroup identities. (Russian. Russian summary) **2004g:20078**
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20M07 Varieties of semigroups

Adams, M. E. (*with* Dziobiak, W.) Quasivarieties of idempotent semigroups. (English summary) **2004i:20104**
Almeida, Jorge Finite semigroups: an introduction to a unified theory of pseudovarieties. (English summary) **2004j:20114**
— Dynamics of finite semigroups. (English summary) **2004k:20120**
— (*with* Zeitoun, Marc) Tameness of some locally trivial pseudovarieties. (English summary) **2004b:20086**
— (*with* Volkov, Mikhail V.) Profinite identities for finite semigroups whose subgroups belong to a given pseudovariety. (English summary) **2004h:20079**
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Auinger, Karl (*with* Trotter, Peter G.) A syntactic approach to covers for E-dense semigroups over group varieties. (English summary) **2004h:20080**
— (*with* Steinberg, Benjamin) On the extension problem for partial permutations. (English summary) **2004c:20102**

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Margolis, Stuart W. (*with* Steinberg, Benjamin) Power semigroups and polynomial closure. (English summary) **2004m:20109**

Martynov, L. M. Reduced varieties of semigroups. (Russian)

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Petrich, Mario (*with* Silva, Pedro V.) On $*$-bands and their varieties. (English summary) **2004f:20099**

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Popov, Vladimir Yur'evich On independently based varieties of monoids. (Russian. English and Russian summaries) **2004e:20106**

— On independently decomposable systems of semigroup identities. (Russian. Russian summary) **2004g:20078**

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Trakhtman, Avraam N. The identities of local threshold testability. (English summary) **2004k:20121**

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— Quasi-identities in modular lattices of semigroup varieties. (Russian)

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Kaďourek, Jiří A finitely generated variety of combinatorial inverse semigroups having uncountably many subvarieties. (English summary) **2004c:20109**

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(Polák, György) *see* **Volkov, Mikhail V., 2004g:01040a** *and* **2004g:01040b**

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Tesson, Pascal (*with* Thérien, Denis) Diamonds are forever: the variety DA. (English summary) **2004j:68108**

Thérien, Denis *see* **Straubing, Howard, 2004b:68109** *and* **Tesson, Pascal, 2004j:68108**

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Steinberg, Benjamin The uniform word problem for groups and finite Rees quotients of E-unitary inverse semigroups. (English summary) **2004i:20057**
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Guo, Hong Xia *see* **Peng, Shao Yu et al.**
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20M20 Semigroups of transformations, etc. [see also 47D03, 47H20, 54H15]

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— (*with* Makharadze, Sh. I.) Maximal subgroups of complete semi-groups of binary relations. (English and Georgian summaries) **2004b:20099**

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— (*with* Howie, John M.; Ruškuc, Nik) Set products in transformation semigroups. (English summary) **2004k:20134**

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— *see also* **Kemprasit, Yupaporn**, **2004k:20135**

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— (*with* Konieczny, Janusz) Automorphism groups of centralizers of idempotents. (English summary) **2004j:20006**

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20M25 Semigroup rings, multiplicative semigroups of rings [see also 16S36, 16Y60]

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20M30 Representation of semigroups; actions of semigroups on sets

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Kilp, M. When principally weakly flat acts satisfy condition (PWP). (English summary) **2004g:20087**
— *see also* **Bulman-Fleming, Sydney**, **2004i:20120**
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Ovchinnikova, Elena Viktorovna Complete classes of regular polygons over monoids of depth 2. (Russian. Russian summary) **2004b:20101**
Putcha, Mohan S. Brauer characters of finite monoids. (English summary) **2004m:20125**
Qiao, Hu Sheng Characterization of monoids by $C(\mathrm{P})$-acts. (Chinese. English and Chinese summaries) **2004m:20126**
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Wang, Ya Qing *see* **Shi, Ai Ling et al.**

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Gould, Victoria Semigroups of left quotients: existence, straightness and locality. (English summary) **2004h:20085**
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Wen, Zhi Xiong *see* **Tan, Bo² et al.**, **2004b:68129**
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20M35 Semigroups in automata theory, linguistics, etc. [see also 03D05, 68Q70, 68T50]

Buls, Jānis (*with* Zandere, Ieva) Injective morphisms of the machine semigroups. (English summary) (*see* **2004k:08001**)
Delgado, Manuel (*with* Héam, Pierre-Cyrille) A polynomial time algorithm to compute the abelian kernel of a finite monoid. (English summary) **2004a:20069**
Dimovski, Dončo (*with* Manevska, Violeta) Vector valued semigroup automata. (English summary) (*see* **2004b:00012**)
Héam, Pierre-Cyrille *see* **Delgado, Manuel**, **2004a:20069**
Kelarev, Andrei (*with* Trotter, Peter G.) A combinatorial property of languages and monoids. **2004k:20139**
Liu, Yao Jun (*with* Xu, Z. B.) Monoid algorithms and semigroup properties related to dense regular languages. (English summary) **2004g:20088**
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Gómez, Antonio Cano (*with* Pin, Jean-Éric) Shuffle on positive varieties of languages. (English summary) **2004k:68091**
Gutan, Marin (*with* Kisielewicz, Andrzej) Semigroups with good and bad magnifiers. (English summary) **2004i:20107**
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Hashiguchi, Kosaburo (*with* Sakakibara, Naoto; Jimbo, Shuji) Equivalence of regular binoid expressions and regular expressions denoting binoid languages over free binoids. (English summary) **2004k:68092**
Holub, Štěpán Binary equality sets are generated by two words. (English summary) **2004b:68090**
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Pin, Jean-Éric Algebraic tools for the concatenation product. (English summary) **2004e:68070**
— *see also* **Gómez, Antonio Cano**, **2004k:68091**
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Ribes, Luis Profinite groups and applications to finite semigroups. (English summary) **2004h:20041**
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Verma, Kumar Neeraj Two-way equational tree automata for AC-like theories: decidability and closure properties. (English summary)
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20M50 Connections of semigroups with homological algebra and category theory

Alonso, Juan Manuel (*with* Hermiller, Susan M.) Homological finite derivation type. (English summary) **2004i:20122**
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— (*with* Otto, Friedrich) For finitely presented monoids the homological finiteness conditions FHT and bi-FP_3 coincide. (English summary) **2004f:20116**
Novikov, B. V. Principal quasi-ideals of cohomological dimension 1. (English summary) **2004m:20127**
Otto, Friedrich *see* **Kobayashi, Yuji**, **2004c:20112** *and* **2004f:20116**
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Cedó, Ferran *see* **Antoine, Ramon**, **2004e:20113**
Chen, Chengxian *see* **Li, Yong Hua²**
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Fountain, John B. (*with* Pin, Jean-Éric; Weil, Pascal) Covers for monoids. (English summary) **2004k:20140**
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Jun, Young Bae Roughness of gamma-subsemigroups/ideals in gamma-semigroups. (English summary)
Kehayopulu, Niovi (*with* Tsingelis, Michael) On semigroups which are groups. (English summary)
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20Nxx Other generalizations of groups

20N02 Sets with a single binary operation (groupoids)

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Celakoski, Naum *see* **Čupona, Ǵorǵi et al., 2004a:20071**; **(2004b:00012)** *and* **Ilić, Snežana et al., (2004b:00012)**
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20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)

Jukl, Marek On Hall planar ternary rings with ordered carrier sets. (English summary)

20N15 n-ary systems ($n \geq 3$)

Ahmeti, Ajet *see* **Dimovski, Dončo**
Artamonov, Vyacheslav A. *see* **Zeković, Biljana**
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20N20 Hypergroups

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Antampoufis, N. (*with* Spartalis, Stefanos; Vougiouklis, Thomas) Fundamental relations in special extensions. (English summary) (*see* **2004g:20001**)
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22A05 Structure of general topological groups

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22A10 Analysis on general topological groups

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22Bxx Locally compact abelian groups (LCA groups)

22B05 General properties and structure of LCA groups

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22Dxx Locally compact groups and their algebras

22D05 General properties and structure of locally compact groups

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22D12 Other representations of locally compact groups

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Gröchenig, Karlheinz *see* **Fendler, Gero et al., 2004k:43008**
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22D15 Group algebras of locally compact groups

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22D20 Representations of group algebras

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22D25 C^*-algebras and W^*-algebras in relation to group representations [see also 46Lxx]

Milnes, Paul Minimal H_3 actions and simple quotients of discrete 7-dimensional nilpotent groups. (English summary) **2004c:22006**
Plymen, R. J. Reduced C^*-algebra of the p-adic group $\mathrm{GL}(n)$. II. (English summary) **2004b:22008**
Rieffel, Marc A. Group C^*-algebras as compact quantum metric spaces. (English summary) **2004k:22009**
Robertson, Alexander Guyan (*with* Sinclair, Allan M.; Smith, Roger R.) Strong singularity for subalgebras of finite factors. (English summary) **2004c:22007**
Sinclair, Allan M. *see* **Robertson, Alexander Guyan et al., 2004c:22007**
Smith, Roger R. *see* **Robertson, Alexander Guyan et al., 2004c:22007**
Sudo, Takahiro Structure of group C^*-algebras of the generalized Mautner groups. (English summary) **2004e:22005**
— Structure of the C^*-algebras of solvable Lie groups of full triangular matrices. (English summary) **2004c:22008**
— Group C^*-algebras of some connected Lie groups with stable rank one. (English summary) **2004c:22009**
— The structure of group C^*-algebras of the generalized Dixmier groups. (English summary) **2004i:22006**

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Anantharaman-Delaroche, Claire Amenability and exactness for dynamical systems and their C^*-algebras. (English summary) **2004e:46082**
An Huef, Astrid (*with* Raeburn, Iain; Williams, Dana P.) Proper actions on imprimitivity bimodules and decompositions of Morita equivalences. (English summary) **2004j:46089**
Baaj, Saad (*with* Skandalis, Georges) Unitaires multiplicatifs commutatifs. (English and French summaries) [Commutative multiplicative unitaries] **2004c:46135**
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Bédos, E. (*with* Murphy, Gerard J.; Tuset, L.) Amenability and co-amenability of algebraic quantum groups. II. (English summary) **2004e:46085**
Bergmann, Wolfgang R. (*with* Conti, Roberto[2]) Asymptotic invariance, amenability and generalized Cuntz algebras. (English summary) **2004h:46079**
Chigogidze, Alex (*with* Karasev, Alexandr; Rørdam, M.) Real rank and squaring mappings for unital C^*-algebras. (English summary) **2004h:46058**
Conti, Roberto[2] *see* **Bergmann, Wolfgang R., 2004h:46079**
Echterhoff, Siegfried (*with* Williams, Dana P.) Central twisted transformation groups and group C^*-algebras of central group extensions. (English summary) **2004f:46081**
Fulman, Igor (*with* Muhly, Paul S.; Williams, Dana P.) Continuous-trace groupoid crossed products. (English summary) **2004k:46120**
Junge, Marius (*with* Ruan, Zhong Jin) Approximation properties for noncommutative L_p-spaces associated with discrete groups. (English summary) **2004b:46023**
Kahng, Byung-Jay $*$-representations of a quantum Heisenberg group algebra. (English summary) **2004f:46083**
Karasev, Alexandr *see* **Chigogidze, Alex et al., 2004h:46058**
Khattou, N. Deux propriétés de la C^*-algèbre maximale de certains produits libres. [Two properties of the maximal C^*-algebra of some free products] **2004i:46084**
Muhly, Paul S. *see* **Fulman, Igor et al., 2004k:46120**
Murphy, Gerard J. Primitivity conditions for full group C^*-algebras. (English summary) **2004d:46062**
— *see also* **Bédos, E. et al., 2004e:46085**
Opdam, Eric M. A generating function for the trace of the Iwahori-Hecke algebra. (English summary) **2004f:20013**
Raeburn, Iain *see* **An Huef, Astrid et al., 2004j:46089**
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Ruan, Zhong Jin *see* **Junge, Marius, 2004b:46023**
Skandalis, Georges *see* **Baaj, Saad et al., 2004c:46135** *and* **2004g:46083**
Sudo, Takahiro Stable rank of crossed products by $\mathbb{R}$ or $\mathbb{T}$. (English summary) **2004c:46132**
— Stable rank of twisted crossed products of C^*-algebras by abelian groups. (English summary) **2004m:46152**
— Stable rank of residually finite dimensional C^*-algebras. (English summary) **2004m:46138**
Tuset, L. *see* **Bédos, E. et al., 2004e:46085**
Tzanev, Kroum Hecke C^*-algebras and amenability. (English summary) **2004i:46102**
Vaes, Stefaan (*with* Vainerman, Leonid) Extensions of locally compact quantum groups and the bicrossed product construction. (English summary) **2004i:46103**
— *see also* **Baaj, Saad et al., 2004g:46083**
Vainerman, Leonid *see* **Vaes, Stefaan, 2004i:46103**
Vallin, Jean-Michel Multiplicative partial isometries and finite quantum groupoids. (English summary) **2004i:16058**
Villadsen, Jesper Comparison of projections and unitary elements in simple C^*-algebras. (English summary) **2004a:46056**
Williams, Dana P. *see* **Echterhoff, Siegfried, 2004f:46081**; **An Huef, Astrid et al., 2004j:46089** *and* **Fulman, Igor et al., 2004k:46120**
Yamanouchi, Takehiko Takesaki duality for weights on locally compact quantum group covariant systems. (English summary) **2004j:46081**
— Galois groups of quantum group actions and regularity of fixed-point algebras. (English summary) **2004i:46104**

22D30 Induced representations

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Bekka, Mohammed El Bachir (*with* Curtis, Robyn) On Mackey's irreducibility criterion for induced representations. **2004k:20016**

Curtis, Robyn *see* **Bekka, Mohammed El Bachir**, **2004k:20016**
Smulders, C. M. P. A. Functional calculus, regularity and Riesz transforms of weighted subcoercive operators on σ-finite measure spaces. (English summary) **2004m:47035**

22D35 Duality theorems

Rosenberg, Alexander L. Reconstruction of groups. **2004c:22010**

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Masuda, Tetsuya (*with* Nakagami, Y.; Woronowicz, S. L.) A C^*-algebraic framework for quantum groups. (English summary) **2004j:46100**
Nakagami, Y. *see* **Masuda, Tetsuya et al.**, **2004j:46100**
Woronowicz, S. L. *see* **Masuda, Tetsuya et al.**, **2004j:46100**

22D40 Ergodic theory on groups [see also 28Dxx]

Gaboriau, Damien Invariants l^2 de relations d'équivalence et de groupes. [l^2-invariants of equivalence relations and groups] **2004b:22009**

Items with secondary classifications in 22D40

Dani, S. G. Some two-step and three-step nilpotent Lie groups with small automorphism groups. (English summary) **2004b:22010**
Nevo, Amos The spectral theory of amenable actions and invariants of discrete groups. (English summary) **2004j:22012**
Temir, Seyit On subadditive processes on direct product of countable amenable groups. (English summary) **2004i:28031**

22D45 Automorphism groups of locally compact groups

Dani, S. G. Some two-step and three-step nilpotent Lie groups with small automorphism groups. (English summary) **2004b:22010**

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Hoheisel, Jochen (*with* Stroppel, Markus) More about embeddings of almost homogeneous Heisenberg groups. (English summary) **2004g:22007**
Stroppel, Markus Locally compact groups with few orbits under automorphisms. (English summary) **2004k:22008**
— *see also* **Hoheisel, Jochen**, **2004g:22007**

22D99 None of the above, but in this section

Van Daele, Alfons Multiplier Hopf *-algebras with positive integrals: a laboratory for locally compact quantum groups. (English summary) **2004e:22006**

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Heyer, Herbert (*with* Pap, Gyula[1]) Martingale characterizations of increment processes in a locally compact group. (English summary) **2004i:60064**
Leung, Chi-Wai (*with* Ng, Chi-Keung) Invariant ideals of twisted crossed products. (English summary) **2004a:46067**
Ng, Chi-Keung *see* **Leung, Chi-Wai**, **2004a:46067**
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Sinaiskiĭ, E. E. Translation continuous functionals on the space $CB(G)$ and their supports. II. (English summary) **2004k:43002**
— Translation continuous functionals on the space $CB(G)$ and their supports. III. (English summary) **2004k:43003**
Vaes, Stefaan (*with* Van Daele, Alfons) The Heisenberg commutation relations, commuting squares and the Haar measure on locally compact quantum groups. (English summary) **2004j:46095**
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22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90.}

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Godement, Roger ★ Introduction à la théorie des groupes de Lie. (French) [Introduction to Lie group theory] **2004m:22001**

22E05 Local Lie groups [see also 34–XX, 35–XX, 58H05]

Items with secondary classifications in 22E05

García, Isaac A. (*with* Giné, Jaume) Non-algebraic invariant curves for polynomial planar vector fields. (English summary) **2004j:34076**
Giné, Jaume *see* **García, Isaac A.**, **2004j:34076**

22E10 General properties and structure of complex Lie groups [see also 32M05]

Items with secondary classifications in 22E10

Glöckner, Helge (*with* Neeb, Karl-Hermann) Banach-Lie quotients, enlargibility, and universal complexifications. (English summary) [Banach-Lie quotients, enlargeability, and universal complexifications] **2004i:22007**
Neeb, Karl-Hermann *see* **Glöckner, Helge**, **2004i:22007**
Neretin, Yurii A. Geometry of $GL_\alpha(\mathbb{C})$ at infinity: hinges, complete collineations, projective compactifications, and universal boundary. **2004f:14073**

22E15 General properties and structure of real Lie groups

Bajnaid, Maha A. *see* **Zabel, A. M.**, **2004m:22012**
Breuillard, Emmanuel (*with* Gelander, T.) On dense free subgroups of Lie groups. (English summary) **2004h:22005**
Gelander, T. *see* **Breuillard, Emmanuel**, **2004h:22005**
Glöckner, Helge (*with* Neeb, Karl-Hermann) Banach-Lie quotients, enlargibility, and universal complexifications. (English summary) [Banach-Lie quotients, enlargeability, and universal complexifications] **2004i:22007**
Hämmerli, Jean-François Some remarks on nonconnected compact Lie groups. (English summary) **2004g:22004**
Johnson, Kenneth D. The structure of parabolic subgroups. (English summary) **2004m:22010**
Neeb, Karl-Hermann *see* **Glöckner, Helge**, **2004i:22007**
Shukuzawa, Osamu Diagonalization of elements of Freudenthal $\mathbb{R}$-vector space and split Freudenthal $\mathbb{R}$-vector space. **2004f:22008**
Vinberg, È. B. Commutative homogeneous spaces of Heisenberg type. (Russian. Russian summary) **2004m:22011**
Wüstner, Michael Supplements on the theory of exponential Lie groups. (English summary) **2004e:22007**
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Zabel, A. M. (*with* Bajnaid, Maha A.) The extension problem for exponentially convex functions. (English summary) **2004m:22012**

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Abbassi, Mohamed Tahar Kadaoui (*with* Yampol′skiĭ, A. L.) Transverse totally geodesic submanifolds of the tangent bundle. (English summary) **2004i:53068**
Arvanitoyeorgos, Andreas ★ An introduction to Lie groups and the geometry of homogeneous spaces. **2004i:53059**
Baum, Helga (*with* Kath, Ines) Doubly extended Lie groups—curvature, holonomy and parallel spinors. (English summary) **2004i:53102**
Braga Barros, Carlos José (*with* San Martin, Luiz A. B.) Controllability of discrete-time control system on the symplectic group. (English summary) **2004f:93081**
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Cowling, Michael (*with* De Mari, Filippo; Korányi, Adam; Reimann, Hans Martin) Contact and conformal maps on Iwasawa N groups. (English summary) **2004f:53028**
Dani, S. G. (*with* McCrudden, M.; Walker, Seth) On the embedding problem for infinitely divisible distributions on certain Lie groups with toral center. **2004m:60012**
De Cat, Tine (*with* Dekimpe, Karel; Igodt, Paul) Translations in simply transitive affine actions of Heisenberg type Lie groups. (English summary) **2004a:22007**
Dekimpe, Karel *see* **De Cat, Tine et al.**, **2004a:22007**
De Mari, Filippo *see* **Cowling, Michael et al.**, **2004f:53028**
Hofmann, Karl Heinrich A category of topological groups suitable for a structure theory of locally compact groups. (English summary) **2004k:22006**
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Kath, Ines *see* **Baum, Helga**, **2004i:53102**
Korányi, Adam *see* **Cowling, Michael et al.**, **2004f:53028**
Kramer, Linus Two-transitive Lie groups. (English summary) **2004j:22020**
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Torossian, Charles Méthodes de Kashiwara-Vergne-Rouvière pour les espaces symétriques. (English summary) [Kashiwara-Vergne-Rouvière methods for symmetric spaces] **2004m:53163**
Vosylius, R. Nonholonomic connections of the first degree with Galilei groups of local transformations. (Russian. English, Russian and Lithuanian summaries) **2004d:53017**
— Nonholonomic connections of the first degree with Galilei groups of local transformations. II. (Russian. English, Russian and Lithuanian summaries) **2004h:53026**
Walker, Seth *see* **Dani, S. G. et al.**, **2004m:60012**
Wüstner, Michael A generalization of the Jordan decomposition. (English summary) **2004c:17009**
Yampol′skiĭ, A. L. *see* **Abbassi, Mohamed Tahar Kadaoui**, **2004i:53068**

22E20 General properties and structure of other Lie groups

Items with secondary classifications in 22E20

Leslie, Joshua A. On a diffeological group realization of certain generalized symmetrizable Kac-Moody Lie algebras. (English summary) **2004f:17036**

22E25 Nilpotent and solvable Lie groups

Baklouti, Ali (*with* Smaoui, K.; Ludwig, Jean) Estimate of the L^p-Fourier transform norm on nilpotent Lie groups. (English summary) **2004i:22008**
Bernstein, Holly (*with* Witte Morris, Dave) Foliation-preserving maps between solvmanifolds. (English summary) **2004m:22013**
Bounechada, Nourredine Distorsion des distances dans les groupes de Lie nilpotents. (English and French summaries) [Distortion of distances in nilpotent Lie groups] **2004k:22010**
Danielli, Donatella (*with* Garofalo, Nicola; Nhieu, Duy-Minh) Notions of convexity in Carnot groups. **2004m:22014**
De Cat, Tine (*with* Dekimpe, Karel; Igodt, Paul) Translations in simply transitive affine actions of Heisenberg type Lie groups. (English summary) **2004a:22007**
Dekimpe, Karel *see* **De Cat, Tine et al.**, **2004a:22007**
Garofalo, Nicola *see* **Danielli, Donatella et al.**, **2004m:22014**

Gorbatsevich, V. V. On isometries of some Riemannian Lie groups. (Russian. Russian summary) **2004d:22006**
Goze, Michel *see* **Remm, Elisabeth, 2004a:22008**
Igodt, Paul *see* **De Cat, Tine et al., 2004a:22007**
Ludwig, Jean *see* **Baklouti, Ali et al., 2004i:22008**
Melzi, Camillo Sub-Laplacian with drift in nilpotent Lie groups. (English summary) **2004j:22008**
Nhieu, Duy-Minh *see* **Danielli, Donatella et al., 2004m:22014**
Remm, Elisabeth (*with* Goze, Michel) Affine structures on abelian Lie groups. (English summary) **2004a:22008**
Rouvière, François Espaces de Damek-Ricci, géométrie et analyse. (English and French summaries) [Damek-Ricci spaces: geometry and analysis] **2004m:22015**
Semmes, Stephen An introduction to Heisenberg groups in analysis and geometry. **2004e:22008**
Smaoui, K. *see* **Baklouti, Ali et al., 2004i:22008**
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Abib, Odinete Renée Sub-Riemannian geodesics on Lie groups. (English summary) **2004e:53044**
Alexander, David (*with* Ludwig, Jean) Minimal ideals of group algebras. (English summary) **2004k:43007**
Barczy, Mátyás (*with* Pap, Gyula[1]) Gaussian measures on the affine group: uniqueness of embedding and supports. (English summary) **2004e:60015**
Ben Farah, Slaim (*with* Mokni, Kamel) Uncertainty principle and the L^p-L^q-version of Morgan's theorem on some groups. (English summary) **2004h:43010**
Binz, Ernst (*with* Pods, Sonja; Schempp, Walter J.) Heisenberg groups—the fundamental ingredient to describe information, its transmission and quantization. (English summary) **2004g:94019**
Chang, Der-Chen (*with* Greiner, Peter) Harmonic analysis and sub-Riemannian geometry on Heisenberg groups. **2004d:43011**
Cohn, William S. (*with* Lu, Guozhen; Lu, Shan Zhen) Higher order Poincaré inequalities associated with linear operators on stratified groups and applications. (English summary) **2004d:46037**
Coulhon, Thierry (*with* Meda, Stefano) Subexponential ultracontractivity and L^p-L^q functional calculus. (English summary) **2004h:47064**
Dani, S. G. Some two-step and three-step nilpotent Lie groups with small automorphism groups. (English summary) **2004b:22010**
Danielli, Donatella (*with* Garofalo, Nicola; Nhieu, Duy-Minh) On the best possible character of the L^Q norm in some a priori estimates for non-divergence form equations in Carnot groups. (English summary) **2004i:35051**
De Smedt, Vivian (*with* Salamon, Simon M.) Anti-self-dual metrics on Lie groups. **2004k:53068**
Dotti Miatello, Isabel G. (*with* Fino, Anna) Hypercomplex eight-dimensional nilpotent Lie groups. (English summary) **2004i:53060**
Dušek, Zdeněk (*with* Kowalski, Oldřich) Geodesic graphs on the 13-dimensional group of Heisenberg type. (English summary) **2004b:53072**
Fanaï, Hamid-Reza Sur un type particulier de valeur propre des solvariétés d'Einstein. (French summary) [A particular type of eigenvalue of Einstein solvmanifolds] **2004f:53048**
Feix, Birte (*with* Pedersen, Henrik) Hyperkähler structures with torsion on nilpotent Lie groups. (English summary) **2004c:53061**
Fino, Anna Cotangent bundles of 4-dimensional hypercomplex Lie groups. (English summary) **2004g:53052**
— *see also* **Dotti Miatello, Isabel G., 2004i:53060**
Furutani, Kenro (*with* de Gosson, Serge) Determinant of Laplacians on Heisenberg manifolds. (English summary) **2004i:58060**
Garofalo, Nicola *see* **Danielli, Donatella et al., 2004i:35051**
Glauberman, George Large subgroups of small class in finite p-groups. (English summary) **2004m:20039**
Głowacki, Paweł A symbolic calculus and L^2-boundedness on nilpotent Lie groups. (English summary) **2004j:43006**
Gornet, Ruth (*with* Mast, Maura B.) Length minimizing geodesics and the length spectrum of Riemannian two-step nilmanifolds. (English summary) **2004e:58060**
de Gosson, Serge *see* **Furutani, Kenro, 2004i:58060**
Greiner, Peter *see* **Chang, Der-Chen, 2004d:43011**
Gröchenig, Karlheinz (*with* Leinert, Michael) Wiener's lemma for twisted convolution and Gabor frames. **2004m:42037**
Guediri, Mohammed On the global hyperbolicity of Lorentz 2-step nilpotent Lie groups. (English summary) **2004m:53091**
— Lorentz geometry of 2-step nilpotent Lie groups. (English summary) **2004m:53123**
Hoheisel, Jochen (*with* Stroppel, Markus) More about embeddings of almost homogeneous Heisenberg groups. (English summary) **2004g:22007**
Homolya, Szilvia (*with* Nagy, Péter T.) Submersions on nilmanifolds and their geodesics. (English summary) **2004j:53066**
Jang, Changrim (*with* Parker, Phillip E.) Examples of conjugate loci of pseudoriemannian 2-step nilpotent Lie groups with nondegenerate center. (English summary) **2004m:53124**
Kaniuth, Eberhard Extension of positive definite functions from subgroups of nilpotent locally compact groups. (English summary) **2004k:43013**
Kowalski, Oldřich *see* **Dušek, Zdeněk, 2004b:53072**
Lauret, Jorge Examples of Anosov diffeomorphisms. (English summary) **2004g:37033a**
— Corrigendum to: "Examples of Anosov diffeomorphisms" [J. Algebra **262** (2003), no. 1, 201–209]. **2004g:37033b**
Leinert, Michael *see* **Gröchenig, Karlheinz, 2004m:42037**
Leonardi, Gian Paolo (*with* Rigot, S.) Isoperimetric sets on Carnot groups. (English summary) **2004d:28008**
Li, Deng Feng[2] *see* **Zhu, Yue-ping, 2004k:43014**
Lu, Guozhen *see* **Cohn, William S. et al., 2004d:46037**
Lu, Shan Zhen *see* **Cohn, William S. et al., 2004d:46037**
Ludwig, Jean *see* **Alexander, David, 2004k:43007**
Luo, Xue Bo *see* **Niu, Peng Cheng et al., 2004e:35034**
Mast, Maura B. *see* **Gornet, Ruth, 2004e:58060**
Meda, Stefano *see* **Coulhon, Thierry, 2004h:47064**
Milnes, Paul Minimal H_3 actions and simple quotients of discrete 7-dimensional nilpotent groups. (English summary) **2004c:22006**
Mokni, Kamel *see* **Ben Farah, Slaim, 2004h:43010**
Müller, Detlef Sub-Laplacians of holomorphic L^p-type on exponential Lie groups. (English summary) **2004k:35058**
Nagy, Péter T. *see* **Homolya, Szilvia, 2004j:53066**
Nhieu, Duy-Minh *see* **Danielli, Donatella et al., 2004i:35051**
Niu, Peng Cheng (*with* Zhang, Hui Qing; Luo, Xue Bo) Hardy's inequalities and Pohozaev's identities on the Heisenberg group. (Chinese. English and Chinese summaries) **2004e:35034**
Pap, Gyula[1] *see* **Barczy, Mátyás, 2004e:60015**
Parker, Phillip E. *see* **Jang, Changrim, 2004m:53124**
Pedersen, Henrik *see* **Feix, Birte, 2004c:53061**
Pods, Sonja *see* **Binz, Ernst et al., 2004g:94019**
Rigot, S. *see* **Leonardi, Gian Paolo, 2004d:28008**
Salamon, Simon M. *see* **De Smedt, Vivian, 2004k:53068**
Schempp, Walter J. *see* **Binz, Ernst et al., 2004g:94019**
Stroppel, Markus *see* **Hoheisel, Jochen, 2004g:22007**
Thangavelu, Sundaram Revisiting Hardy's theorem for the Heisenberg group. (English summary) **2004i:43016**
Urban, Roman Estimates for derivatives of the Green functions for noncoercive differential operators on homogeneous manifolds of negative curvature. (English summary) **2004j:43009**
Will, Cynthia E. Rank-one Einstein solvmanifolds of dimension 7. (English summary) **2004j:53060**
Wüstner, Michael Supplements on the theory of exponential Lie groups. (English summary) **2004e:22007**
Zhang, Hui Qing *see* **Niu, Peng Cheng et al., 2004e:35034**
Zhu, Yue-ping (*with* Li, Deng Feng[2]) Herz spaces on nilpotent Lie groups and its applications. (English summary) **2004k:43014**
Zienkiewicz, Jacek Note on analytic regularity of heat kernels on nilpotent Lie groups. (English summary) **2004j:47091**

22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)

Baklouti, Ali (*with* Fujiwara, Hidénori) Opérateurs différentiels associés à certaines représentations unitaires d'un groupe de Lie résoluble exponentiel. (French summary) [Differential operators associated with certain unitary representations of an exponential solvable Lie group] **2004j:22009**
— (*with* Fujiwara, Hidénori) Commutativité des opérateurs différentiels sur l'espace des représentations restreintes d'un groupe de Lie nilpotent. (English and French summaries) [Commutativity of differential operators on the space of restricted representations of a nilpotent Lie group] **2004k:22011**
Fujiwara, Hidénori *see* **Baklouti, Ali, 2004j:22009** *and* **2004k:22011**
Galina, Esther (*with* Kaplan, Aroldo) On unitary representations of nilpotent gauge groups. (English summary) **2004e:22009**
Kaplan, Aroldo *see* **Galina, Esther, 2004e:22009**
Kirillov, Aleksandr Aleksandrovich Two more variations on the triangular theme. **2004k:22012**
Ludwig, Jean (*with* Mint Elhacen, Salma; Molitor-Braun, Carine) Characterization of the simple $L^1(G)$-modules for exponential Lie groups. (English summary) **2004m:22016**
Mint Elhacen, Salma *see* **Ludwig, Jean et al., 2004m:22016**
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Sudo, Takahiro The structure of group C^*-algebras of the generalized Dixmier groups. (English summary) **2004i:22006**

22E30 Analysis on real and complex Lie groups [see also 33C80, 43–XX]

Ames, Guillermo Fundamental solutions of invariant differential operators on a semisimple Lie group. II. (English summary) **2004b:22011**
Aubert, S. (*with* Lam, Chi-Sing) Invariant integration over the unitary group. (English summary) **2004i:22009**
Barchini, L. Stein extensions of real symmetric spaces and the geometry of the flag manifold. (English summary) **2004d:22007**
Barker, Laurence Continuum quantum systems as limits of discrete quantum systems. IV. Affine canonical transforms. (English summary) **2004f:22009**
Bekkar, M. Sur un système d'équations aux dérivées partielles dans l'espace de Heisenberg. (English summary) [A system of partial differential equations in Heisenberg space] **2004c:22011**
Bouaziz, Abderrazak Quelques remarques sur les distributions invariantes dans les algèbres de Lie réductives. [Some remarks on invariant distributions in reductive Lie algebras] **2004m:22017**
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22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx.}

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22E67 Loop groups and related constructions, group-theoretic treatment [see also 58D05]

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22E70 Applications of Lie groups to physics; explicit representations [see also 81R05, 81R10]

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22E99 None of the above, but in this section

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22Fxx Noncompact transformation groups

22F05 General theory of group and pseudogroup actions {For topological properties of spaces with an action, see 57S20.}

Adhikari, M. R. (*with* Rahaman, Masiur; Pramanik, L. K.; Parui, S.) Orbit spaces and their fundamental groups. (English summary)
Fisher, David Michael (*with* Margulis, Grigorii A.) Local rigidity for cocycles. (English summary) **2004m:22032**
Kramer, Linus Two-transitive Lie groups. (English summary) **2004j:22020**
Margulis, Grigorii A. *see* **Fisher, David Michael, 2004m:22032**
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Sartori, G. (*with* Valente, G.) Tools in the orbit space approach to the study of invariant functions: rational parametrization of strata. (English summary) **2004g:22017**
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Adams, Scot Transitive actions on Lorentz manifolds with noncompact stabilizer. (English summary) **2004f:37032**
Biller, Harald Characterizations of proper actions. (English summary) **2004k:57043**
Feres, Renato Rigid geometric structures and actions of semisimple Lie groups. (English and French summaries) **2004m:53076**
Fisher, David Michael (*with* Whyte, Kevin) When is a group action determined by its orbit structure? (English summary) **2004k:37045**
Ghys, Étienne ★ Groups acting on the circle.
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Liu, Chiu-Chu Melissa *see* **Ho, Nan-Kuo, 2004h:53116**
Matsumoto, Shigenori (*with* Mitsumatsu, Y.) Leafwise cohomology and rigidity of certain Lie group actions. (English summary) **2004k:37046**
Mitsumatsu, Y. *see* **Matsumoto, Shigenori, 2004k:37046**
Pilyugin, Sergei Yu. (*with* Tikhomirov, Sergei B.) Shadowing in actions of some abelian groups. (English summary) **2004i:37050**
Tikhomirov, Sergei B. *see* **Pilyugin, Sergei Yu., 2004i:37050**
Uchida, Fuichi On smooth $\mathbf{C}^* \times \mathrm{SO}(n, \mathbf{C})$-actions on the sphere of dimension $2n - 1$. (English summary) **2004m:57070**
Whyte, Kevin *see* **Fisher, David Michael, 2004k:37045**

22F10 Measurable group actions [see also 22D40, 28Dxx, 37Axx]

Items with secondary classifications in 22F10

Gaboriau, Damien Invariants l^2 de relations d'équivalence et de groupes. [l^2-invariants of equivalence relations and groups] **2004b:22009**
Schindler, Werner ★ Measures with symmetry properties. **2004b:28018**
Zakrzewski, Piotr Measures on algebraic-topological structures. **2004i:43001**

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Lecture Notes in Mathematics *see* **Schindler, Werner, 2004b:28018**

22F30 Homogeneous spaces {For general actions on manifolds or preserving geometrical structures, see 57M60, 57Sxx; for discrete subgroups of Lie groups see especially 22E40.}

Bremigan, Ralph (*with* Lorch, John) Orbit duality for flag manifolds. (English summary) **2004b:22020**
Kleinbock, Dmitry (*with* Shah, Nimish A.; Starkov, A. N.) Dynamics of subgroup actions on homogeneous spaces of Lie groups and applications to number theory. **2004b:22021**
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Minsky, Yair N. (*with* Weiss, Barak) Nondivergence of horocyclic flows on moduli space. (English summary) **2004d:32012**
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Park, Dae Heui (*with* Suh, Dong Youp) Linear embeddings of semialgebraic G-spaces. (English summary) **2004d:14083**
Pestov, Vladimir On some questions of Eymard and Bekka concerning amenability of homogeneous spaces and induced representations. (English and French summaries) **2004i:43005**
San Martin, Luiz A. B. *see* **Cohen, Nir et al., 2004b:53070**
Sawon, Justin *see* **Eastwood, Michael G., 2004g:22009**
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Tran Dao Dong (*with* Tran Vui) A realization of Riemannian symmetric spaces in compact manifolds. (English summary) **2004h:53081**
Tran Vui *see* **Tran Dao Dong, 2004h:53081**
Weiss, Barak *see* **Minsky, Yair N., 2004d:32012**
Witte Morris, Dave *see* **Bernstein, Holly, 2004m:22013**
Yakimova, O. S. Weakly symmetric spaces of semisimple Lie groups. (Russian. Russian summary) **2004b:53076**

22F50 Groups as automorphisms of other structures

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Carbone, Lisa (*with* Garland, Howard) Existence of lattices in Kac-Moody groups over finite fields. (English summary) **2004m:17031**
Garland, Howard *see* **Carbone, Lisa, 2004m:17031**
Turiel, Francisco-Javier Analytic actions on compact surfaces and fixed points. (English summary) **2004d:57041**

26–XX Real functions [see also 54C30]

26–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Gelbaum, Bernard R. (*with* Olmsted, John M. H.) ★ Counterexamples in analysis.
Olmsted, John M. H. *see* **Gelbaum, Bernard R.**

26–01 Instructional exposition (textbooks, tutorial papers, etc.)

El-Benny, Wassim ★ Mehrdimensionale Analysis. [Multidimensional analysis]
Godement, Roger ★ Analysis. I. **2004j:26001**
Hairer, Ernst (*with* Wanner, G.) ★ L'analyse au fil de l'histoire. (French) [Analysis throughout history]
Körner, T. W. ★ A companion to analysis. **2004h:26001**
Krantz, Steven G. ★ A handbook of real variables. **2004i:26001**
Kuttler, Kenneth ★ Basic analysis. **2004e:26001**
Martínez Fonseca, Antonio (*with* Mederos Anoceto, Otilio) Generalization of the operation of addition to number series. (Spanish. English and Spanish summaries)
Mederos Anoceto, Otilio *see* **Martínez Fonseca, Antonio**
Sohrab, Houshang H. ★ Basic real analysis. **2004e:26002**
(Spain, Philip) *see* **Godement, Roger**. **2004j:26001**
Walker, Peter L. ★ Examples and theorems in analysis. **2004h:26002**
Wanner, G. *see* **Hairer, Ernst**

Items with secondary classifications in 26–01

Cohen, Graeme L. ★ A course in modern analysis and its applications. **2004d:46001**
(Cooke, Roger L.) *see* **Zorich, Vladimir A.**, **2004i:00002a** *and* **2004i:00002b**
(Dalkowski, Heinz) *see* **Landau, Edmund**, **2004m:00001**
Eriksson, Kenneth (*with* Estep, D.; Johnson, Claes G. L.) ★ Applied mathematics: body and soul. Vol. 1. **2004i:00003a**
Estep, D. *see* **Eriksson, Kenneth et al.**, **2004i:00003a**
Frid, Hermano ★ Introdução a integral de Lebesgue. (Portuguese) [Introduction to the Lebesgue integral]
Giaquinta, Mariano (*with* Modica, Giuseppe) ★ Mathematical analysis.
Godement, Roger ★ Analyse mathématique. II. (French) [Mathematical analysis. II] **2004f:00002**
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Kaczor, Wiesława (*with* Nowak, M. T.) ★ Problems in mathematical analysis. III. **2004f:28001**
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Modica, Giuseppe *see* **Giaquinta, Mariano**
Nowak, M. T. *see* **Kaczor, Wiesława**, **2004f:28001**
Wallace, David Foster ★ Everything and more. **2004j:00001**
Zorich, Vladimir A. ★ Mathematical analysis. I. **2004i:00002a**
— ★ Mathematical analysis. II. **2004i:00002b**

26–02 Research exposition (monographs, survey articles)

Bourbaki, Nicolas ★ Functions of a real variable.
(Spain, Philip) *see* **Bourbaki, Nicolas**
Vitushkin, A. G. Hilbert's thirteenth problem and related questions. (Russian. Russian summary) **2004m:26001**

Items with secondary classifications in 26–02

Carroll, Robert Wayne ★ Calculus revisited. **2004g:81107**
Dragomir, Sever Silvestru A survey on Cauchy-Bunyakovsky-Schwarz type discrete inequalities. (English summary) **2004m:26020**
Rassias, Themistocles M. *see* **Yang, Bi Cheng**, **2004i:26009**
Yang, Bi Cheng (*with* Rassias, Themistocles M.) On the way of weight coefficient and research for the Hilbert-type inequalities. (English summary) **2004i:26009**

26–03 Historical (must also be assigned at least one classification number from Section 01)

Bansal, Shuchi (*with* Kiran, Shashi) The history of pointwise regularity of Riemann's nondifferentiable function.
(de Fermat, Pierre) *see* **Paradís, Jaume et al.**
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Maurey, Bernard (*with* Tacchi, Jean-Pierre) Qui a inventé la fonction singulière de Cantor? (French and Italian summaries) [Who invented the Cantor singular function?] **2004a:26001**
Paradís, Jaume (*with* Pla i Carrera, Josep; Viader, Pelegrí) Fermat and the quadrature of the folium of Descartes.
Pla i Carrera, Josep *see* **Paradís, Jaume et al.**
Tacchi, Jean-Pierre *see* **Maurey, Bernard**, **2004a:26001**
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Arantes Sad, Lígia (*with* Teixeira, Marcos Vieira; Baldino, Roberto Ribeiro) Cauchy and the problem of point-wise convergence. (English summary) **2004a:01016**
Baldino, Roberto Ribeiro *see* **Arantes Sad, Lígia et al.**, **2004a:01016**
(Bauer, Heinz) *see* **Chatterji, Srishti D.**, **(2004h:01038)**
(Bolzano, Bernard) *see* **Cañada Villar, Antonio**, **2004m:01025**
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(Cauchy, Augustin-Louis) *see* **Arantes Sad, Lígia et al.**, **2004a:01016**
Chatterji, Srishti D. The work of Heinz Bauer in measure and integration. (*see* **2004h:01038**)
Ferraro, Giovanni Differentials and differential coefficients in the Eulerian foundations of the calculus. (English and Italian summaries) **2004k:01033**
Hairer, Ernst (*with* Wanner, G.) ★ L'analyse au fil de l'histoire. (French) [Analysis throughout history]
Hlawka, Edmund Bemerkungen zur letzten Arbeit von M. Smoluchowski. [Remarks on the last work of M. Smoluchowski] **2004h:26016**
(Jahnke, Hans Niels) *see* **History of analysis**, **2004h:01005**
Kahane, Jean-Pierre L'Enseignement du calcul différentiel et intégral au début du vingtième siècle. (English summary) [The teaching of differential calculus at the beginning of the twentieth century] (*see* **2004f:00017**)
Lützen, Jesper Between rigor and applications: developments in the concept of function in mathematical analysis. (*see* **2004g:01001**)
Ritelli, Daniele *see* **Scarpello, Giovanni Mingari**, **2004g:01049**
Scarpello, Giovanni Mingari (*with* Ritelli, Daniele) A historical outline of the theorem of implicit functions. (English and Spanish summaries) **2004g:01049**
Siu, Man-Keung Learning and teaching of analysis in the mid twentieth century: a semi-personal observation. (French summary) (*see* **2004f:00017**)
(Smoluchowski, M.) *see* **Hlawka, Edmund**, **2004h:26016**
Steen, Lynn Arthur Analysis 2000: challenges and opportunities. (French summary) (*see* **2004f:00017**)
(Stirling, James) *see* **Tweddle, Ian**, **2004i:01026**
Teixeira, Marcos Vieira *see* **Arantes Sad, Lígia et al.**, **2004a:01016**
Tweddle, Ian ★ James Stirling's *Methodus differentialis*. **2004i:01026**
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History of analysis ★ A history of analysis. **2004h:01005**

26–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 26–04

Niu, Zhong Rong *see* **Zhou, Huan Lin et al.**
Wang, Xiu Xi *see* **Zhou, Huan Lin et al.**
Zhou, Huan Lin (*with* Wang, Xiu Xi; Niu, Zhong Rong) Completely analytical algorithm for nearly singular integrals in the boundary element method of potential problems. (Chinese. English and Chinese summaries)

26–06 Proceedings, conferences, collections, etc.

(Cho, Yeol Je) *see* **Inequality theory and applications. Vol. 3**, **2004k:26001**
(Dragomir, Sever Silvestru) *see* **Inequality theory and applications. Vol. 3**, **2004k:26001**
(Kim, Jong Kyu) *see* **Inequality theory and applications. Vol. 3**, **2004k:26001**

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Items with secondary classifications in 26–06

(Bohner, Martin) *see* **Advances in dynamic equations on time scales**, **2004d:34003**
(Cho, Yeol Je) *see* **Inequality theory and applications**, **2004j:00017**
(Dragomir, Sever Silvestru) *see* **Inequality theory and applications**, **2004j:00017**
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Masan ★ Inequality theory and applications. Vol. 2. **2004j:00017**

26Axx Functions of one variable

26A03 Foundations: limits and generalizations, elementary topology of the line

Chen, Guanrong *see* **Li, Chang-Pin**
Chiriac, Ion *see* **Predoi, Maria**, **2004k:26002**

Li, Chang-Pin (*with* Chen, Guanrong) When does x^{x^x} exist? (English summary)
Natkaniec, Tomasz The $\mathcal{I}$-almost constant convergence of sequences of real functions. (English summary) **2004h:26003**
Predoi, Maria (*with* Chiriac, Ion) Anti-topological construction of $\mathbb{R}$. (English summary) **2004k:26002**
Sarkhel, D. N. On proximal limits. (English summary) **2004j:26002**
Tsaban, Boaz A diagonalization property between Hurewicz and Menger. (English summary) **2004c:26001**

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Andrica, Dorin (*with* Piticari, Mihai) R-sequences and applications. (English summary) **2004a:11138**

Ash, J. Marshall Counterexample without cases. (English and Georgian summaries) **2004d:26002**

Cichoń, Jacek Some remarks about two definitions of continuity. (English summary) **2004e:03082**

Ciesielski, Krzysztof[2] (*with* Pawlikowski, Janusz) Covering property axiom $\mathrm{CPA}_{\mathrm{cube}}$ and its consequences. (English summary) **2004b:03076**

— (*with* Millán, Andrés; Pawlikowski, Janusz) Uncountable γ-sets under axiom $\mathrm{CPA}^{\mathrm{game}}_{\mathrm{cube}}$. (English summary) **2004b:03077**

Das, Pratulananda *see* **Lahiri, B. K., 2004m:40003**

Demirci, Kamil On A-statistical cluster points. (English summary) **2004b:40001**

Eivazloo, Jafar S. (*with* Moniri, Mojtaba) Pathological functions on Puiseux series ordered fields and others. (English summary) **2004b:12013**

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— (*with* Strońska, Ewa) On an ideal of linear sets. (English summary) **2004i:26002**

Lahiri, B. K. (*with* Das, Pratulananda) Further results on I-limit superior and limit inferior. (English summary) **2004m:40003**

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Moniri, Mojtaba *see* **Eivazloo, Jafar S., 2004b:12013**

Moreira, Carlos Gustavo T. de A. (*with* Muñoz Morales, Eduardo M.) Sums of Cantor sets whose sum of dimensions is close to 1. (English summary) **2004g:37026**

Muñoz Morales, Eduardo M. *see* **Moreira, Carlos Gustavo T. de A., 2004g:37026**

Pawlikowski, Janusz *see* **Ciesielski, Krzysztof**[2] **et al., 2004b:03076** *and* **2004b:03077**

Piticari, Mihai *see* **Andrica, Dorin, 2004a:11138**

Strońska, Ewa *see* **Grande, Zbigniew, 2004i:26002**

26A06 One-variable calculus

Bohner, Martin (*with* Guseinov, Gusein Sh.; Peterson, Allan C.) Introduction to the time scales calculus. (*see* **2004d:34003**)

Bukor, József *see* **Tóth, László, 2004g:26001**

Einbeck, Jochen A simple unifying formula for Taylor's theorem and Cauchy's mean value theorem. (English summary)

Gheondea, Aurelian (*with* Gologan, Radu N.) On a class of piecewise smooth functions. (English summary)

Gologan, Radu N. *see* **Gheondea, Aurelian**

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Natkaniec, Tomasz (*with* Wilczyński, Władysław) Sums of periodic Darboux functions and measurability. (English summary) **2004k:26003**

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Salimi, Behzad Orthogonal trajectories in polar form. (English summary) **2004f:26002**

Tóth, László (*with* Bukor, József) On the alternating series $1-\frac{1}{2}+\frac{1}{3}-\frac{1}{4}+\cdots$. (English summary) **2004g:26001**

Wilczyński, Władysław *see* **Natkaniec, Tomasz, 2004k:26003**

Yang, Shan Shan (*with* Liu, Jian[6]; Ma, Yue Chao) Generalizing a generalized Stolz theorem. (Chinese. English and Chinese summaries)

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Došlić, Tomislav (*with* Veljan, Darko) Calculus proofs of some combinatorial inequalities. (English summary) **2004a:05014**

Fang, Kui (*with* Tan, Jian Rong) C^2-continuous nearly arc-length parameterized curves. (Chinese. English summary) **2004m:65018**

Tan, Jian Rong *see* **Fang, Kui, 2004m:65018**

Veljan, Darko *see* **Došlić, Tomislav, 2004a:05014**

26A09 Elementary functions

Nakaoka, Akira Une demonstration d'analycité de fonctions trigonométriques sans usage du calcul infinitésimal. (English summary) [A proof of analyticity for trigonometric functions that does not use infinitesimal calculus] **2004d:26001**

Pospíšil, Zdeněk Hyperbolic sine and cosine functions on measure chains. (English summary) **2004a:26002**

26A12 Rate of growth of functions, orders of infinity, slowly varying functions [see also 26A48]

Janković, Slobodanka (*with* Ostrogorski, Tatjana) Decomposition of convex additively slowly varying functions. (English summary) **2004e:26003**

Napalkov, V. V. (*with* Tarov, V. A.) Functions that are equivalent to regularly varying functions. (Russian)

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Rogozin, B. A. Tauberian theorems for dominatedly varying decreasing functions. (Russian. Russian summary) **2004f:26003**

Simić, Slavko Integral kernels with regular variation property. (English summary) **2004f:26004**

Tarov, V. A. *see* **Napalkov, V. V.**

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Baltrūnas, Aleksandras On a property of subexponential distributions. (Russian. Russian and Lithuanian summaries) **2004c:60032**

Fīlevich, Petro (*with* Sheremeta, Myroslav M.) Regularly increasing entire Dirichlet series. (Russian. Russian summary) **2004k:30005**

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Ivić, Aleksandar On summatory functions of additive functions and regular variation. (English summary) **2004b:11139**

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Rădulescu, Vicenţiu D. *see* **Şt. Cîrstea, Florica Corina, 2004c:35141**

Seneta, Eugene Karamata's characterization theorem, Feller, and regular variation in probability theory. (English summary) **2004c:60006**

Sheremeta, Myroslav M. *see* **Fīlevich, Petro, 2004k:30005**

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Teugels, Józef L. (*with* Vanroelen, Giovanni) Convergence of ratios and differences of two order statistics. (English summary) **2004b:62138**

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Yakymiv, A. L. A Tauberian theorem for the Stieltjes transform. (Russian. Russian summary) **2004e:44007**

26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27.}

Ash, J. Marshall Counterexample without cases. (English and Georgian summaries) **2004d:26002**

Connor, Jeff (*with* Grosse-Erdmann, Karl G.) Sequential definitions of continuity for real functions. (English summary) **2004e:26004**

Evans, Michael Jon (*with* Humke, Paul D.) The quasicontinuity of delta-fine functions. **2004g:26002**

Grande, Marcin On the sets of continuity points of Darboux quasicontinuous functions. (English summary) **2004j:26003**

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— (*with* Strońska, Ewa) On an ideal of linear sets. (English summary) **2004i:26002**

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Loranty, Anna On the generalization of the approximate continuity. (English summary) **2004j:26004**

Mirzapour, Farzollah (*with* Morassaei, Ali) On approximately convex functions. (English summary)

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Pawlak, Ryszard Jerzy *see* **Kucner, Joanna, 2004f:26006**

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Rosen, Harvey Sierpinski-Zygmund uniform limits of extendable connectivity functions. (English summary) **2004c:26002**

— Darboux symmetrically continuous functions. (English summary) **2004h:26006**

Starovoĭtov, A. P. Examples of continuous functions with a given order of best rational approximations. (Russian. English and Russian summaries) **2004g:26003**

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Leindler, László A theorem on Besov-Nikol′skiĭ class. (English summary) **2004m:42003**
Maliszewski, Aleksander Separating sets by Darboux-like functions. (English summary) **2004b:26005**
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Schuster, Peter M. Unique existence, approximate solutions, and countable choice. (English summary) **2004k:03120**
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26A16 Lipschitz (Hölder) classes

Bustamante González, Jorge Lipschitz functions, periodic functions and the Ditzian-Totik modulus of smoothness. (English summary) **2004b:26002**
Korobkov, Mikhail Stability in the C-norm and the W^1_∞-norm of classes of Lipschitz functions of one variable. (Russian. Russian summary) **2004d:26003**
Lyalikov, A. S. Approximation of Hölder functions by rational operators of de la Vallée Poussin type. (Russian. English and Russian summaries) **2004g:26004**
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Kim, Kiwon Hardy-Littlewood property with the inner length metric. (English summary) **2004m:30032**
La Torre, Davide (*with* Rocca, Matteo) Remarks on second order generalized derivatives for differentiable functions with Lipschitzian Jacobian. (English summary) **2004j:26008**
Małolepszy, Marek On natural functions and Lipschitz functions. (English summary) **2004f:26018**
Miculescu, Radu Approximations by Lipschitz functions generated by extensions. (English summary) **2004b:41022**
Mustăţa, Costică On the extremal semi-Lipschitz functions. (English summary) **2004j:46006**
Oswald, Peter Smoothness of nonlinear median-interpolation subdivision. (English summary) **2004k:42060**
Preiss, David (*with* Rolland, Louise) Regularity of Lipschitz functions on the line. (English summary) **2004b:26010**
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26A18 Iteration [see also 37Bxx, 37Cxx, 37Exx, 39B12, 47H10, 54H25]

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Aydin, Bünyamin Rotational sequence entropy for maps of the interval. (English summary) **2004k:26004**
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Błasińska-Lesk, J. (*with* Głazowska, D.; Matkowski, Janusz) An invariance of the geometric mean with respect to Stolarsky mean-type mappings. (English summary) **2004a:39042**
Daróczy, Zoltán (*with* Páles, Zsolt) On functional equations involving means. (English summary) **2004h:39056**
Elaydi, Saber N. Is the world evolving discretely? **2004j:37034**
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Gronau, Detlef On the early history of iteration theory and dynamics. (English summary) **2004b:01023**
Kolyada, S. F. *see* **Alsedà, Lluís et al.**, **2004h:37017**
Krasikov, Ilia (*with* Lagarias, Jeffrey C.) Bounds for the $3x+1$ problem using difference inequalities. **2004i:11020**
Kupka, Jiří Triangular maps with the chain recurrent points periodic. (English summary) **2004k:37023**
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Linero, A. Common fixed points for commuting Cournot maps. (English summary) **2004b:37082**
Llibre, Jaume *see* **Alsedà, Lluís et al.**, **2004h:37017**
Matkowski, Janusz *see* **Błasińska-Lesk, J. et al.**, **2004a:39042**
Oswald, Peter Smoothness of nonlinear median-interpolation subdivision. (English summary) **2004k:42060**
Páles, Zsolt *see* **Daróczy, Zoltán**, **2004h:39056**
Sachse, Paweł Lightly but not partially mixing quasi-Markovian process. (English summary) **2004m:28022**
Snoha, Ľubomír *see* **Alsedà, Lluís et al.**, **2004h:37017**

26A21 Classification of real functions; Baire classification of sets and functions [see also 03E15, 28A05, 54C50]

Dodos, Pandelis Ranks for Baire multifunctions. (English summary) **2004c:26003**
Doliwa, Dariusz *see* **Pawlak, Ryszard Jerzy**, **2004f:26008**
Elekes, Márton (*with* Kunen, Kenneth) Transfinite sequences of continuous and Baire class 1 functions. (English summary) **2004b:26004**
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Grande, Zbigniew On a problem of Leiderman. (English summary) **2004h:26008**
Horbaczewska, Grażyna A note on $\mathcal{I}$-density continuous functions. (English summary) **2004j:26005**
Humke, Paul D. *see* **Evans, Michael Jon et al.**, **2004h:26007** *and* **2004m:26003**
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Leung, Denny H. (*with* Tang, Wee-Kee) Functions of Baire class one. (English summary) **2004k:26005**
Maliszewski, Aleksander Separating sets by Darboux-like functions. (English summary) **2004b:26005**
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— Comparable almost continuous functions. (English summary) **2004b:26007**
Mátrai, Tamás Weak difference property of functions with the Baire property. (English summary) **2004e:26005**
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Argyros, Spiros A. (*with* Kanellopoulos, Vassilis) Optimal sequences of continuous functions converging to a Baire-1 function. (English summary) **2004d:46028**
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Evans, Michael Jon (*with* Humke, Paul D.) The quasicontinuity of delta-fine functions. **2004g:26002**
Fejzić, Hajrudin Infinite approximate Peano derivatives. (English summary) **2004f:26010**
Filevich, Petro The Baire categories and Wiman's inequality for entire functions. (English and Russian summaries) **2004m:30045**
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Grande, Marcin On the sets of continuity points of Darboux quasicontinuous functions. (English summary) **2004j:26003**
Grande, Zbigniew An example of a Darboux function having no fixed points. (English summary) **2004h:26004**
Hager, Anthony W. (*with* Martínez, Jorge[2]) α-Specker spaces. (English summary) **2004h:54035**
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26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [see also 28A15]

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Fejzić, Hajrudin Infinite approximate Peano derivatives. (English summary) **2004f:26010**
Gal, Tomas Functional differentiation under conservation constraints. (English summary) **2004b:26008**
Giraldo, V. (*with* Carvalho, L. M.) Magnification and local linearity: new technologies in the teaching of the concept of derivative. (Portuguese. English and Portuguese summaries)
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Horváth, Alexandru On differentiable functions preserving rationality and irrationality. (English summary) **2004d:26006**
Jiménez, Máximo *see* **Almira, Jose María et al.**
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La Torre, Davide (*with* Rocca, Matteo) Remarks on second order generalized derivatives for differentiable functions with Lipschitzian Jacobian. (English summary) **2004j:26008**
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Ren, Li Shun Asymptotic behavior of "mean value points" for higher-order differentials of functionals. (Chinese. English and Chinese summaries)
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Sarkhel, D. N. On approximate derivatives and Krzyzewski-Foran lemma. (English summary) **2004k:26007**
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Borwein, Jonathan M. (*with* Wang, Xianfu) Lipschitz functions on the line with prescribed Hölder subdifferentials. (English summary) **2004h:49023**
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Wang, Xianfu *see* **Borwein, Jonathan M., 2004h:49023**
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26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives

Buczolich, Zoltán Micro tangent sets of continuous functions. (English summary) **2004f:26011**
Cater, F. S. Constructing nowhere differentiable functions from convex functions. (English summary) **2004g:26006**
Heurteaux, Yanick Weierstrass functions with random phases. (English summary) **2004f:26012**
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Borwein, Jonathan M. (*with* Wang, Xianfu) Lipschitz functions on the line with prescribed Hölder subdifferentials. (English summary) **2004h:49023**
Dekking, F. Michel (*with* Li, Wen Xia) How smooth is a devil's staircase? (English summary) **2004d:28016**
He, Guo Long *see* **Zhou, Song Ping et al., 2004j:28019**
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Sirvent, Víctor F. Hilbert's space filling curves and geodesic laminations. (English summary) **2004k:28024**
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26A30 Singular functions, Cantor functions, functions with other special properties

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Liu, Xian² Four alternative patterns of the Hilbert curve. (English summary) **2004j:26009**
Mira López, Juan A. *see* **Mora Martínez, Gaspar, 2004f:26013**
Mora Martínez, Gaspar (*with* Mira López, Juan A.) Alpha-dense curves in infinite dimensional spaces. (English summary) **2004f:26013**
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Cichoń, Jacek Some remarks about two definitions of continuity. (English summary) **2004e:03082**
Dekking, F. Michel (*with* Li, Wen Xia) How smooth is a devil's staircase? (English summary) **2004d:28016**
Li, Wen Xia *see* **Dekking, F. Michel, 2004d:28016**
Lin, Ying-Fen (*with* Wong, Ngai Ching) Constructing space-filling curves of compact connected manifolds. (English summary) **2004j:28016**
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26A33 Fractional derivatives and integrals

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Anastassiou, George A. Fractional Ostrowski type inequalities. (English summary) **2004e:26006**
Anh, V. V. *see* **Liu, Fa Wang et al., 2004j:26011**
Beyer, Horst *see* **Kempfle, Siegmar et al., 2004c:26007** *and* **2004k:26010**
Bhandari, Neetu *see* **Kumbhat, R. K., 2004a:26006**
Butzer, Paul L. (*with* Kilbas, A. A.; Trujillo, Juan J.) Stirling functions of the second kind in the setting of difference and fractional calculus. (English summary) **2004k:26008**
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Frappier, Clément A multiple and complex alpha-calculus. (English summary) **2004b:26011**
Gaafar, Fatma M. *see* **El-Sayed, Ahmed M. A., 2004m:26005**
Garg, Mridula (*with* Mittal, Shweta) On infinite integrals involving product of Laguerre functions and multivariable H-function. (English summary)
Garg, Rashmi *see* **Goyal, Som Prakash, 2004a:26005**
Goyal, Som Prakash (*with* Garg, Rashmi) On Laplace transform and Weyl fractional integral operators for one and more variables. (English summary) **2004a:26005**
— (*with* Mathur, Trilok) On general multiple Eulerian integrals and fractional integration. (Hindi. English and Hindi summaries)
Hadid, S. B. *see* **Momani, Shaher, 2004e:26008**
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Kilbas, A. A. Some problems in the theory of integral and differential equations of fractional order. (English summary) **2004i:26005**
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26A36 Antidifferentiation

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26Bxx Functions of several variables

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26B30 Absolutely continuous functions, functions of bounded variation

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26B35 Special properties of functions of several variables, Hölder conditions, etc.

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26B40 Representation and superposition of functions

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26Cxx Polynomials, rational functions

26C05 Polynomials: analytic properties, etc. [see also 12Dxx, 12Exx]

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26E05 Real-analytic functions [see also 32B05, 32C05]

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26E20 Calculus of functions taking values in infinite-dimensional spaces [see also 46E40, 46G10, 58Cxx]

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26E40 Constructive real analysis [see also 03F60]

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26E50 Fuzzy real analysis [see also 03E72, 28E10]

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26E60 Means [see also 47A64]

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26E99 None of the above, but in this section

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28–XX Measure and integration {For analysis on manifolds, see 58–XX.}

28–01 Instructional exposition (textbooks, tutorial papers, etc.)

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de Barra, G. ★ Measure theory and integration. **2004k:28002**
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Kantorovitz, Shmuel ★ Introduction to modern analysis. **2004d:00001**
Peña, Carlos C. ★ Sobre análisis funcional, variable compleja, topología, álgebra y teoría de la medida. (Spanish) [On functional analysis, complex variables, topology, algebra and measure theory] **2004m:46001**
Plaza S., Sergio ★ Fractales y generación computacional de imágenes. (Spanish) [Fractals and computer generation of images] **2004f:28017**
Sohrab, Houshang H. ★ Basic real analysis. **2004e:26002**

28–02 Research exposition (monographs, survey articles)

Ambrosio, Luigi (*with* Tilli, Paolo) ★ Selected topics on "analysis in metric spaces". **2004f:28002**
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28–03 Historical (must also be assigned at least one classification number from Section 01)

Paunić, Djura History of measure theory. **2004b:28003**

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Bauer, Heinz ★ Selecta. **2004h:01038**
— *see also* **Chatterji, Srishti D.**, (**2004h:01038**)
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Hopf, Eberhard ★ Selected works of Eberhard Hopf with commentaries. **2004h:01039**
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Collected Works:
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History of analysis ★ A history of analysis. **2004h:01005**

28–06 Proceedings, conferences, collections, etc.

(Blackledge, Jonathan M.) *see* **Fractal geometry: mathematical methods, algorithms, applications, 2004d:28001**
(Evans, A. K.) *see* **Fractal geometry: mathematical methods, algorithms, applications, 2004d:28001**
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(Keller, Gerhard) *see* **Entropy, 2004j:00006**
(Mesiar, Radko) *see* **Aggregation techniques**
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28Axx Classical measure theory

Items with secondary classifications in 28Axx

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28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [see also 03E15, 26A21, 54H05]

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28A10 Real- or complex-valued set functions

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28A12 Contents, measures, outer measures, capacities

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28A50 Integration and disintegration of measures

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28A51 Lifting theory [see also 46G15]

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28A60 Measures on Boolean rings, measure algebras [see also 54H10]

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28A75 Length, area, volume, other geometric measure theory [see also 26B15, 49Q15]

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28A78 Hausdorff and packing measures

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28A80 Fractals [see also 37Fxx]

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28Bxx Set functions, measures and integrals with values in abstract spaces

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28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [see also 26E25, 54C60, 54C65, 91B14]

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28Cxx Set functions and measures on spaces with additional structure [see also 46G12, 58C35, 58D20]

28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures

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Dereich, Steffen Small ball probabilities around random centers of Gaussian measures and applications to quantization. (English summary) **2004d:28033**
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Fomina, Tamara A. (*with* Shatashvili, Albert D.) Some necessary and sufficient conditions of the equivalence of two Gaussian measures induced by solutions of differential equations in an Euclid and a Hilbert spaces. (English summary) **2004j:28021**
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Kulik, A. M. Filtering and finite-dimensional characterization of logarithmically convex measures. (Russian. English and Ukrainian summaries) **2004k:28033**
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Maeda, Michie (*with* Harai, Keiko; Hagihara, Rika) Some examples and the connection between cylindrical measures and measurable norms. (English summary) **2004i:28027**
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Yoo, Il *see* **Chang, Kun Soo et al., 2004a:28025**; **2004d:28032** *and* **Ahn, J. M. et al., 2004i:28026**
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28Dxx Measure-theoretic ergodic theory [see also 11K50, 11K55, 22D40, 37Axx, 47A35, 54H20, 60Fxx, 60G10]

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28D05 Measure-preserving transformations

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28D10 One-parameter continuous families of measure-preserving transformations

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28D15 General groups of measure-preserving transformations

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28D20 Entropy and other invariants

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Park, Kyewon K. *see* **Danilenko, A. I.**, **2004f:37006**
Rondoni, Lamberto (*with* Cohen, Ezechiel G. D.) On some derivations of irreversible thermodynamics from dynamical systems theory. (English summary) **2004e:82036**
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Steif, Jeffrey E. *see* **Lyons, Russell**, **2004k:60100**
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Catuogno, P. J. *see* **Ferrando, Sebastian E. et al.**, **2004m:28023**
Ferrando, Sebastian E. (*with* Catuogno, P. J.; Gonzalez, A. L.) Lower bounds for generalized upcrossings of ergodic averages. (English summary) **2004m:28023**
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Barge, Marcy (*with* Diamond, Beverly) Coincidence for substitutions of Pisot type. (English and French summaries) **2004c:37018**
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Keane, Michael S. (*with* Steif, Jeffrey E.) Finitary coding for the one-dimensional T, T^{-1} process with drift. (English summary) **2004k:60099**
Roy, Mario Fibrewise expansive systems. (English summary) **2004g:37021**
— (*with* Urbański, Mariusz) Conformal families of measures for fibred systems. (English summary) **2004i:37056**
Steif, Jeffrey E. *see* **Keane, Michael S.**, **2004k:60099**
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28Exx Miscellaneous topics in measure theory

28E05 Nonstandard measure theory [see also 03H05, 26E35]

Berger, Josef (*with* Osswald, Horst; Sun, Yeneng; Wu, Jiang-Lun) On nonstandard product measure spaces. (English summary) **2004g:28021**
Osswald, Horst *see* **Berger, Josef et al.**, **2004g:28021**
Sun, Yeneng *see* **Berger, Josef et al.**, **2004g:28021**
Wu, Jiang-Lun *see* **Berger, Josef et al.**, **2004g:28021**

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Chen, Dong Li The extension of infinitesimal prolongation theorem and its application. (English and Chinese summaries) **2004c:54042**
Gordon, E. I. (*with* Kusraev, Anatoliĭ Georgievich; Kutateladze, S. S.) ★ Infinitesimal analysis. **2004d:03141**
Henle, James M. Second-order non-nonstandard analysis. (English summary) **2004f:03113**
Kusraev, Anatoliĭ Georgievich (*with* Kutateladze, S. S.) Unsolved nonstandard problems. (English summary)
— *see also* **Gordon, E. I. et al.**, **2004d:03141**
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Mo, Zhi Wen *see* **Zhang, Xian Yong**
Thayer, F. Javier Nonstandard analysis of graphs. (English summary) **2004f:03114**
Vanderputten, Laurent A nonstandard density theorem for weak topologies on Banach and Bochner spaces. (English summary) **2004d:46101**
Zhang, Xian Yong (*with* Mo, Zhi Wen) Knowlege measure. (Chinese. English and Chinese summaries)

28E10 Fuzzy measure theory [see also 03E72, 26E50, 94D05]

Araki, Tomoyuki (*with* Mukaidono, Masao; Yamamoto, Fujio) Ternary Kleenean non-additive measures. (English summary) **2004c:28031**
Ban, Adrian I. Construction of decomposable measures on intuitionistic fuzzy sets. (English summary)
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Bronevich, Andrew G. (*with* Karkishchenko, A. N.) About ideals on the set of fuzzy measures. (English summary) (*see* **2004a:62013**)
— (*with* Lepskiĭ, A. E.) Operators for convolution of fuzzy measures. (English summary) **2004e:28016**
Bry, Xavier (*with* Casta, Jean-François) Synergy modelling and financial valuation: the contribution of fuzzy integrals. (English summary) (*see* **2004m:91008**)
Butnariu, Dan (*with* Klement, Erich Peter) Triangular norm-based measures. **2004k:28034**
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Chen, De Gang (*with* Zhang, Wen Xiu) The Radon-Nikodym theorem for fuzzy-number-valued measures. (Chinese. English and Chinese summaries) **2004c:28032**
Davvaz, B. (*with* Iranshahi, S.) Empty interior and empty exterior subsets in an approximation space. (English summary)
Gil Álvarez, Pedro Ángel *see* **Miranda, Pedro et al.**, **2004a:28030**
Gong, Zeng Tai (*with* Wu, Cong Xin) Are the primitives of fuzzy (K) integrable functions differentiable almost everywhere. (English and Chinese summaries)
González, León A. (*with* Muel, E.; Mesiar, Radko) A remark on the arithmetic mean of an infinite sequence. (English summary) **2004b:28025**
Grabisch, Michel The symmetric Sugeno integral. (English summary) **2004j:28023**
— *see also* **Miranda, Pedro et al.**, **2004a:28030**
Guo, Cai Mei (*with* Zhang, De Li) Fuzzy-valued Choquet integrals. II. The Choquet integral of functions with respect to fuzzy-valued fuzzy measures. (English and Chinese summaries) **2004h:28019**
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Ha, Ming Hu (*with* Wang, Xizhao; Yang, Lanzhen; Li, Yan[4]) Sequences of (S) fuzzy integrable functions. (English summary) **2004h:28020**
Huang, Yan[2] (*with* Wu, Cong Xin) Generalized (N) fuzzy integrals. (Chinese. English and Chinese summaries) **2004m:28024**
Iranshahi, S. *see* **Davvaz, B.**
Jang, Lee-Chae (*with* Kim, Taekyun; Park, Dal-Won) A note on convexity and comonotonically additivity of set-valued Choquet integrals. (English summary) **2004f:28027**
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Klement, Erich Peter *see* **Butnariu, Dan**, **2004k:28034**
Kojadinovic, Ivan Modeling interaction phenomena using fuzzy measures: on the notions of interaction and independence. (English summary) **2004e:28017**
Kong, Fang Di Fuzzy integrals of generalized real value functions. (Chinese. English and Chinese summaries)
Krätschmer, Volker When fuzzy measures are upper envelopes of probability measures. (English summary) **2004g:28022**
Lepskiĭ, A. E. *see* **Bronevich, Andrew G.**, **2004e:28016**
Li, Jun[4] On Egoroff's theorems on fuzzy measure spaces. (English summary) **2004c:28033**
— *see also* **Song, Jinjie**, **2004c:28018**
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Liu, Yian-Kui (*with* Liu, Baoding) Nonadditive set functions defined by Aumann fuzzy integrals. (English summary) **2004a:28029**
Mesiar, Radko *see* **González, León A. et al.**, **2004b:28025**
Miranda, Pedro (*with* Grabisch, Michel; Gil Álvarez, Pedro Ángel) p-symmetric fuzzy measures. (English summary) **2004a:28030**
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Murofushi, Toshiaki Duality and ordinality in fuzzy measure theory. (English summary) **2004f:28028**
— A note on upper and lower Sugeno integrals. (English summary) **2004g:28023**
— *see also* **Narukawa, Yasuo et al.**, **2004f:28029**
Narukawa, Yasuo (*with* Murofushi, Toshiaki; Sugeno, Michio) Space of fuzzy measures and convergence. (English summary) **2004f:28029**
Park, Dal-Won *see* **Jang, Lee-Chae et al.**, **2004f:28027**
Peng, Wei Ling (*with* Sun, Gang[2]; Wang, Gui Jun) Some notes on the K-quasi-additive fuzzy integrals. (Chinese. English and Chinese summaries)
Sikharulidze, A. *see* **Sirbiladze, G.**, **2004c:28034** *and* **2004c:28035**
Sirbiladze, G. (*with* Sikharulidze, A.) Weighted fuzzy averages in fuzzy environment. I. Insufficient expert data and fuzzy averages. (English summary) **2004c:28034**
— (*with* Sikharulidze, A.) Weighted fuzzy averages in fuzzy environment. II. Generalized weighted fuzzy expected values in fuzzy environment. (English summary) **2004c:28035**
— (*with* Zaporozhets, N.) About two probability representations of fuzzy measures on a finite set. (English summary) **2004g:28024**
Song, Jian She *see* **Wang, Guo Jun[1]**
Song, Jinjie (*with* Li, Jun[4]) Regularity of null-additive fuzzy measure on metric spaces. (English summary) **2004e:28018**
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Wu, Hsien-Chung The construction of fuzzy sets from a family of closed intervals and its application in fuzzy-valued integrals. (English summary) **2004b:28027**
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— *see also* **Guo, Cai Mei**, **2004h:28019**
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Avallone, Anna (*with* Vitolo, Paolo) Congruences and ideals of effect algebras. (English summary) **2004e:06019**

— (*with* Vitolo, Paolo) Decomposition and control theorems in effect algebras. (English summary) **2004f:06017**

Beer, Michael *see* **Möller, Bernd et al., 2004k:74044**

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Bouchon-Meunier, Bernadette (*with* Mesiar, Radko; Ralescu, Dan A.) Linear non-additive set-functions. (English summary) **2004k:28005**

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— (*with* Mesiarová, Andrea; Valášková, L'ubica) Construction of aggregation operators: new composition method. (English summary) **2004m:26034**

— *see also* **Lázaro, Jesus et al., 2004m:68239**

Chen, De Gang (*with* Mi, Ju Sheng) Some notes on the supremum and infimum of the fuzzy number space. (English summary) **2004m:28002**

de Cooman, Gert *see* **Miranda, Enrique, 2004a:68138**

Corsini, Piergiulio (*with* Leoreanu, Violeta) ★ Applications of hyperstructure theory. **2004e:08001**

Dang, Ping'an *see* **Zhang, Cheng Yi et al.**

De, Supriya Kumar (*with* Biswas, Ranjit; Roy, Akhil Ranjan) Rough sets on a fuzzy approximation space. (English summary) **2004d:28003**

Divari, Maria *see* **Vivona, Doretta, 2004b:03090**

Dubois, Didier (*with* Prade, Henri) Quantitative possibility theory and its probabilistic connections. (English summary) (*see* **2004a:62013**)

— (*with* Prade, Henri) On the use of aggregation operations in information fusion processes. (English summary)

Feng, Yuhu Note on: "Sums of independent fuzzy random variables" [Fuzzy Sets and Systems **123** (2001), no. 1, 11–18]. (English summary)

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Gong, Zeng Tai Fuzzy-valued functions of bounded variations and their differentiability. (Chinese. English and Chinese summaries) **2004f:26031**

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Heng, Pheng-Ann *see* **Wang, Zhenyuan et al., 2004f:28005**

Hong, Dug Hun Notes on convergence of geometric mean for fuzzy numbers. (English summary) **2004d:26032**

Huang, Yan[2] (*with* Wu, Cong Xin) (N) fuzzy integral on fuzzy set. (English and Chinese summaries)

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— (*with* Kim, Taekyun; Jeon, JongDuek; Kim, WonJu) On Choquet integrals of measurable fuzzy number-valued functions. (English summary) **2004k:28008**

Jeon, JongDuek *see* **Jang, Lee-Chae et al., 2004a:28009** *and* **2004k:28008**

Karpíšek, Zdeněk Modelling of fuzzy probability distribution. (English summary) **2004g:60036**

Kim, Taekyun *see* **Jang, Lee-Chae et al., 2004a:28009** *and* **2004k:28008**

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Mesiar, Radko *see* **Calvo, Tomasa, 2004i:03076** *and* **Bouchon-Meunier, Bernadette et al., 2004k:28005**

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Miranda, Enrique (*with* de Cooman, Gert) Epistemic independence in numerical possibility theory. (English summary) **2004a:68138**

Möller, Bernd (*with* Graf, Wolfgang[2]; Beer, Michael) Discussion on: "Structural reliability analysis through fuzzy number approach, with application to stability" [Comput. & Structures **80** (2002), no. 12, 1087–1102] by M. Savoia. (English summary) **2004k:74044**

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Narukawa, Yasuo (*with* Murofushi, Toshiaki) Conditions for Choquet integral representation of the comonotonically additive and monotone functional. (English summary) **2004h:28002**

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(Savoia, Marco) *see* **Möller, Bernd et al., 2004k:74044**

Srivastava, Pramila Carathéodory outer measure and measurability. (English summary) **2004h:28003**

Valášková, L'ubica *see* **Calvo, Tomasa et al., 2004m:26034**

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Wu, Cong Xin *see* **Huang, Yan[2]**

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Zhuchko, O. V. (*with* Pyt'ev, Yu. P.) Reconstruction of a functional dependency by possibility-theoretic methods. (Russian. Russian summary) **2004e:60009**

28E15 Other connections with logic and set theory

Elekes, Márton Measurable envelopes, Hausdorff measures and Sierpiński sets. (English summary) **2004m:28025**

Items with secondary classifications in 28E15

De Simone, Anna (*with* Navara, Mirko; Pták, Pavel) The Vitali-Hahn-Saks theorem for the product of quantum logics. (English summary) **2004a:81011**

Hirschorn, James Random gaps under CH. (English summary) **2004k:03086**

Kysiak, Marcin (*with* Weiss, Tomasz) Small subsets of the reals and tree forcing notions. (English summary) **2004j:03062**

Navara, Mirko *see* **De Simone, Anna et al., 2004a:81011**

Nowik, Andrzej (*with* Weiss, Tomasz) Some remarks on totally imperfect sets. (English summary) **2004k:03091**

Pták, Pavel *see* **De Simone, Anna et al., 2004a:81011**

Weiss, Tomasz *see* **Kysiak, Marcin, 2004j:03062** *and* **Nowik, Andrzej, 2004k:03091**

28E99 None of the above, but in this section

Items with secondary classifications in 28E99

de Lucia, Paolo (*with* Pap, Endre) Convergence theorems for set functions. **2004a:28005**

Pap, Endre *see* **de Lucia, Paolo, 2004a:28005**

30–XX Functions of a complex variable {For analysis on manifolds, see 58–XX.}

30–01 Instructional exposition (textbooks, tutorial papers, etc.)

Ablowitz, Mark J. (*with* Fokas, Athanassios S.) ★ Complex variables: introduction and applications. **2004f:30001**
Camacho, César ★ Tópicos de análisis en una variable compleja. (Spanish) [Topics of analysis of one convex variable]
Cohen, Harold ★ Fundamentals and applications of complex analysis. **2004h:30001**
Fokas, Athanassios S. *see* **Ablowitz, Mark J., 2004f:30001**
Howie, John M. ★ Complex analysis. **2004d:30001**
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Shakarchi, Rami *see* **Stein, Elias M., 2004d:30002**
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Items with secondary classifications in 30–01

Eriksson, Kenneth (*with* Estep, D.; Johnson, Claes G. L.) ★ Applied mathematics: body and soul. Vol. 1. **2004i:00003a**
Estep, D. *see* **Eriksson, Kenneth et al., 2004i:00003a**
Godement, Roger ★ Analyse mathématique. II. (French) [Mathematical analysis. II] **2004f:00002**
— ★ Analysis. I. **2004j:26001**
Johnson, Claes G. L. *see* **Eriksson, Kenneth et al., 2004i:00003a**
(Spain, Philip) *see* **Godement, Roger, 2004j:26001**

30–02 Research exposition (monographs, survey articles)

Sheil-Small, T. ★ Complex polynomials. **2004b:30001**

Items with secondary classifications in 30–02

Graham, Ian (*with* Kohr, Gabriela) ★ Geometric function theory in one and higher dimensions. **2004i:32002**
Kohr, Gabriela *see* **Graham, Ian, 2004i:32002**
Maergoiz, L. S. ★ Asymptotic characteristics of entire functions and their applications in mathematics and biophysics. **2004m:30042**
Nevanlinna, Olavi ★ Meromorphic functions and linear algebra. **2004g:30047**
Peña, Carlos C. ★ Sobre análisis funcional, variable compleja, topología, álgebra y teoría de la medida. (Spanish) [On functional analysis, complex variables, topology, algebra and measure theory] **2004m:46001**

30–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 30–03

Abhyankar, Shreedhar S. Remembrances of Prof. Shreeram S. Abhyankar and ABC of singularities. (*see* **2004j:00030**)
(Abhyankar, Shreeram S.) *see* **Abhyankar, Shreedhar S., (2004j:00030)**
Archibald, Tom Priority claims and mathematical values: disputes over quaternions at the end of the nineteenth century. **2004f:01009**
Bottazzini, Umberto Complex function theory, 1780–1900. (*see* **2004h:01005**)
(Dedekind, Richard) *see* **Lützen, Jesper, 2004f:01013**
(Grassmann, Hermann Günther) *see* **Schlote, Karl-Heinz, 2004f:01014**
Lützen, Jesper Julius Petersen, Karl Weierstrass, Hermann Amandus Schwarz and Richard Dedekind on hypercomplex numbers. (English summary) **2004f:01013**
(Petersen, Julius) *see* **Lützen, Jesper, 2004f:01013**
Schlote, Karl-Heinz Hypercomplex numbers in the work of Caspar Wessel and Hermann Günther Grassmann: are there any similarities? **2004f:01014**
(Schwarz, Hermann Amandus) *see* **Lützen, Jesper, 2004f:01013**
Ullrich, Peter[1] Die Weierstraßschen "analytischen Gebilde": Alternativen zu Riemanns "Flächen" und Vorboten der komplexen Räume. (English summary) [The Weierstrass "analytic configurations": alternatives to Riemann's "surfaces" and forerunners of complex spaces] **2004d:01019**
(Weierstraß, Karl) *see* **Lützen, Jesper, 2004f:01013**
(Wessel, Caspar) *see* **Schlote, Karl-Heinz, 2004f:01014**

30–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 30–04

Alonso, Juan J. *see* **Martins, Joaquim R. R. A. et al., 2004g:65019**
Li, Pei Chun *see* **Xia, Tie Cheng et al.**
Martins, Joaquim R. R. A. (*with* Sturdza, Peter; Alonso, Juan J.) The complex-step derivative approximation. (English summary) **2004g:65019**
Neher, Markus Improved validated bounds for Taylor coefficients and for Taylor remainder series. (English summary) **2004f:65058**
Rensaa, Ragnhild Johanne Univalent functions and frequency analysis. (English summary) **2004j:30031**
Stephenson, Kenneth Circle packing and discrete analytic function theory. (English summary) **2004b:30082**
Sturdza, Peter *see* **Martins, Joaquim R. R. A. et al., 2004g:65019**
Wolfe, M. A. On bounding zeros of analytic functions. (English summary) **2004d:30015**
Xia, Tie Cheng (*with* Zhang, Hong Qing[1]; Li, Pei Chun) Study of exact analytical solutions of the Boussinesq equation. (Chinese. English and Chinese summaries)
Zhang, Hong Qing[1] *see* **Xia, Tie Cheng et al.**

30–06 Proceedings, conferences, collections, etc.

(Aksent'ev, L. A.) *see* **Theory of functions, its applications and related questions**
(Herron, David A.) *see* **Future trends in geometric function theory, 2004k:30001**
(Nasyrov, S. R.) *see* **Theory of functions, its applications and related questions**

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Będlewo ★ {XIII Conference on Analytic Functions}.
Braşov ★ Travaux de la Conférence Intérnationale d'Analyse Complexe et du 9e Séminaire Roumano-Finlandais. [Papers of the International Conference on Complex Analysis and of the 9th Romanian-Finnish Seminar]
Conference:
  Analytic Functions, 13th ★ {XIII Conference on Analytic Functions}.
  Complex Analysis ★ Travaux de la Conférence Intérnationale d'Analyse Complexe et du 9e Séminaire Roumano-Finlandais. [Papers of the International Conference on Complex Analysis and of the 9th Romanian-Finnish Seminar]
Future trends in geometric function theory ★ Future trends in geometric function theory. **2004k:30001**
Jyväskylä ★ Future trends in geometric function theory. **2004k:30001**
Kazan' ★ Теория функций, её приложения и смежные вопросы. (Russian) [Theory of functions, its applications and related questions]
Seminar:
  Complex Analysis ★ Travaux de la Conférence Intérnationale d'Analyse Complexe et du 9e Séminaire Roumano-Finlandais. [Papers of the International Conference on Complex Analysis and of the 9th Romanian-Finnish Seminar]
Theory of functions, its applications and related questions ★ Теория функций, её приложения и смежные вопросы. (Russian) [Theory of functions, its applications and related questions]

Items with secondary classifications in 30–06

(Aksent'ev, L. A.) *see* **Geometric theory of functions and boundary value problems**
(Alpay, Daniel) *see* **Interpolation theory, systems theory and related topics, 2004f:00020** *and* **Reproducing kernel spaces and applications, 2004f:46001**
(Begehr, Heinrich G. W.) *see* **Analysis and applications—ISAAC 2001, 2004g:00016** *and* **Progress in analysis, 2004i:00014**
(Bonan-Hamada, Cathy) *see* **2001: a mathematics odyssey**
(Dym, Harry) *see* **Interpolation theory, systems theory and related topics, 2004f:00020**
(Elizarov, A. M.) *see* **Geometric theory of functions and boundary value problems**
(Gilbert, Robert Pertsch) *see* **Analysis and applications—ISAAC 2001, 2004g:00016** *and* **Progress in analysis, 2004i:00014**
(Gohberg, Israel) *see* **Factorization and integrable systems, 2004f:00014** *and* **Interpolation theory, systems theory and related topics, 2004f:00020**
(Gustafson, Phil) *see* **2001: a mathematics odyssey**
(Jones, William Branham) *see* **2001: a mathematics odyssey**
(Komori, Yohei) *see* **Kleinian groups and hyperbolic 3-manifolds, 2004j:57001**
(Lebre, Amarino) *see* **Factorization, singular operators and related problems, 2004d:47001**
(Lê Hùng So'n) *see* **Finite or infinite dimensional complex analysis and applications, 2004k:00017**
(Litvinchuk, Georgii Semenovich) *see* **Factorization, singular operators and related problems, 2004d:47001**
(Manojlovic, Nenad) *see* **Factorization and integrable systems, 2004f:00014**
(Marković, Vladimir) *see* **Kleinian groups and hyperbolic 3-manifolds, 2004j:57001**
(McLaughlin, Kenneth D. T.-R.) *see* **Recent developments in integrable systems and Riemann-Hilbert problems, 2004d:00022**
(Mocanu, Petru T.) *see* **Conference: Complex Analysis**
(Nasyrov, S. R.) *see* **Geometric theory of functions and boundary value problems**
(Samko, Stefan G.) *see* **Factorization, singular operators and related problems, 2004d:47001**
(dos Santos, António Ferreira) *see* **Factorization, singular operators and related problems, 2004d:47001** *and* **Factorization and integrable systems, 2004f:00014**
(Series, Caroline) *see* **Kleinian groups and hyperbolic 3-manifolds, 2004j:57001**
(Tutschke, Wolfgang) *see* **Finite or infinite dimensional complex analysis and applications, 2004k:00017**
(Vinnikov, Victor) *see* **Interpolation theory, systems theory and related topics, 2004f:00020**
(Wong, Man Wah) *see* **Analysis and applications—ISAAC 2001, 2004g:00016** *and* **Progress in analysis, 2004i:00014**
(Yang, Chung-Chun) *see* **Finite or infinite dimensional complex analysis and applications, 2004k:00017**
(Zhou, Xin[1]) *see* **Recent developments in integrable systems and Riemann-Hilbert problems, 2004d:00022**

Items listed otherwise than by author

2001: a mathematics odyssey ★ 2001: a mathematics odyssey.
Analysis and applications—ISAAC 2001 ★ Analysis and applications—ISAAC 2001. **2004g:00016**
Berlin ★ Analysis and applications—ISAAC 2001. **2004g:00016**
— ★ Progress in analysis. Vol. I, II. **2004i:00014**
Birmingham, AL ★ Recent developments in integrable systems and Riemann-Hilbert problems. **2004d:00022**
Complex analysis ★ Complex analysis.
Conference:
  Complex Analysis ★ International Conference on Complex Analysis and the 8th Romanian-Finnish Seminar.
Congress:
  International Society for Analysis, its Applications and Computation ★ Analysis and applications—ISAAC 2001. **2004g:00016**
  International Society for Analysis, its Applications and Computation (ISAAC) ★ Progress in analysis. Vol. I, II. **2004i:00014**
Contemporary Mathematics ★ Recent developments in integrable systems and Riemann-Hilbert problems. **2004d:00022**
Factorization and integrable systems ★ Factorization and integrable systems. **2004f:00014**

Factorization, singular operators and related problems ★ Factorization, singular operators and related problems. **2004d:47001**
Faro ★ Factorization and integrable systems. **2004f:00014**
Festschrift:
Dym, Harry ★ Interpolation theory, systems theory and related topics. **2004f:00020**
Jones, William Branham ★ 2001: a mathematics odyssey.
Litvinchuk, Georgii Semenovich ★ Factorization, singular operators and related problems. **2004d:47001**
Mocanu, Petru T. ★ International Conference on Complex Analysis and the 8th Romanian-Finnish Seminar.
Finite or infinite dimensional complex analysis and applications ★ Finite or infinite dimensional complex analysis and applications. **2004k:00017**
Funchal ★ Factorization, singular operators and related problems. **2004d:47001**
Geometric theory of functions and boundary value problems ★ Геометрическая теория функций и краевые задачи. (Russian) [Geometric function theory and boundary value problems]
Grand Junction, CO ★ 2001: a mathematics odyssey.
Hanoi ★ Finite or infinite dimensional complex analysis and applications. **2004k:00017**
Iaşi ★ International Conference on Complex Analysis and the 8th Romanian-Finnish Seminar.
Interpolation theory, systems theory and related topics ★ Interpolation theory, systems theory and related topics. **2004f:00020**
Kazan′ ★ Геометрическая теория функций и краевые задачи. (Russian) [Geometric function theory and boundary value problems]
Kleinian groups and hyperbolic 3-manifolds ★ Kleinian groups and hyperbolic 3-manifolds. **2004j:57001**
Lectures:
Toeplitz ★ Interpolation theory, systems theory and related topics. **2004f:00020**
Progress in analysis ★ Progress in analysis. Vol. I, II. **2004i:00014**
Recent developments in integrable systems and Riemann-Hilbert problems ★ Recent developments in integrable systems and Riemann-Hilbert problems. **2004d:00022**
Rehovot ★ Interpolation theory, systems theory and related topics. **2004f:00020**
Reproducing kernel spaces and applications ★ Reproducing kernel spaces and applications. **2004f:46001**
Seminar:
Complex Analysis ★ International Conference on Complex Analysis and the 8th Romanian-Finnish Seminar.
Session:
Integrable Systems and Riemann-Hilbert Problems ★ Recent developments in integrable systems and Riemann-Hilbert problems. **2004d:00022**
Tel Aviv ★ Interpolation theory, systems theory and related topics. **2004f:00020**
Warwick ★ Kleinian groups and hyperbolic 3-manifolds. **2004j:57001**
Workshop:
Operator Theory ★ Interpolation theory, systems theory and related topics. **2004f:00020**

30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

Items with secondary classifications in 30A05

Qian, Tao Derivation of monogenic functions and applications. (English summary) **2004g:30067**

30A10 Inequalities in the complex domain

Andrievskii, Vladimir On Belyi's lemma. (English summary) **2004c:30001**
Garimella, Ramesh V. (*with* Liu, Yung-Way) Inequalities for absolute maxima of a polynomial and its derivative. (English and Russian summaries) **2004e:30001**
Kresin, Gershon I. (*with* Maz′ya, Vladimir G.) Sharp pointwise estimates for derivatives of analytic functions. (English summary) **2004k:30002**
Liu, Yung-Way *see* **Garimella, Ramesh V., 2004e:30001**
Maz′ya, Vladimir G. *see* **Kresin, Gershon I., 2004k:30002**

Items with secondary classifications in 30A10

Dewan, Shyamali *see* **Lahiri, Indrajit, 2004e:30050**
Dryanov, Dimiter P. (*with* Qazi, Mohammed A.; Rahman, Qazi I.) Local behavior of entire functions of exponential type. (English summary) **2004k:30055**
Fang, Mingliang L. (*with* Yang, Degui) Extensions of Hiong's inequality. (English summary) **2004b:30057**
Lahiri, Indrajit (*with* Dewan, Shyamali) Inequalities arising out of the value distribution of a differential monomial. (English summary) **2004e:30050**
Pogány, Tibor K. Local growth of Weierstrass σ-function and Whittaker-type derivative sampling. (English summary) **2004c:30047**
Qazi, Mohammed A. *see* **Dryanov, Dimiter P. et al., 2004k:30055**
Rahman, Qazi I. *see* **Dryanov, Dimiter P. et al., 2004k:30055**
Yang, Degui *see* **Fang, Mingliang L., 2004b:30057**

30Bxx Series expansions

30B10 Power series (including lacunary series)

Aĭzenberg, L. A. (*with* Grossman, I. B.; Korobeĭnik, Yu. F.) Some remarks on the Bohr radius for power series. (Russian) **2004a:30001**
Chern, Tien-Yu Peter Inequalities along arcs for Hadamard gap series. (English summary) **2004b:30002**
Estrada, Ricardo Abel summability and angular convergence. (English summary) **2004j:30001**
Filevich, Petro (*with* Sheremeta, Myroslav M.) Relations between a logarithmic derivative and the central index of a power series with nonnegative coefficients. (Ukrainian. English summary) **2004k:30003**
Ghusayni, Badih Characterizations of arithmetical progression series with some counterexamples on interpolation. (English summary) **2004d:30003**
Grahl, Jürgen Semiduality of small sets of analytic functions. (English summary) **2004g:30002**
— On the construction of semidual gap structures. (English summary) **2004g:30003**
Grossman, I. B. *see* **Aĭzenberg, L. A. et al., 2004a:30001**
Korobeĭnik, Yu. F. *see* **Aĭzenberg, L. A. et al., 2004a:30001**
Liao, Shi Jun On a generalized Taylor theorem: a rational proof of the validity of the homotopy analysis method. (Chinese. English and Chinese summaries) **2004c:30002**
Radzievskaya, E. I. (*with* Radzievskiĭ, G. V.) The remainder term in the Taylor formula for a function holomorphic in a domain can be represented in Lagrange form. (Russian. Russian summary) **2004b:30003**
Radzievskiĭ, G. V. *see* **Radzievskaya, E. I., 2004b:30003**
Rawlinson, Andrew A. Converting a series in λ to a series in λ^{-1}. (English summary) **2004j:30002**
Shamoyan, R. F. On some properties of partial sums of the Taylor series of functions analytic in the disk. (Russian. English and Russian summaries) **2004b:30004**
Sheremeta, Myroslav M. *see* **Filevich, Petro, 2004k:30003**
Todorov, Pavel G. Laurent series of the composite function $f(z/(z-1))$ where $f(u)$ is an entire function and applications. (English summary) **2004a:30002**
— Taylor series of the natural powers of the Pick functions.
— Powers of the Pick function and applications. (English summary) **2004c:30003**
Zheltukhina, Natalya On power series whose tails have multiply positive coefficients. (English summary) **2004i:30002**

Items with secondary classifications in 30B10

Amiri, Nasser *see* **Yousefi, B., 2004a:46029**
Arakelyan, N. U. (*with* Schmieder, Gerald) Analytic continuation of power series to planar Riemann surfaces. (Russian. English and Russian summaries) **2004a:30003**
— (*with* Luh, Wolfgang) Efficient analytic continuation of power series by matrix summation methods. (English summary) **2004j:30004**
Biles, Daniel C. (*with* Robinson, Mark P.; Spraker, John S.) Analytic solutions for a class of nonlinear ordinary differential equations. (English summary) **2004a:34003**
Eble, Ingo (*with* Neher, Markus) ACETAF: a software package for computing validated bounds for Taylor coefficients of analytic functions. (English summary) **2004g:65026**
Filevich, Petro On the influence of the arguments of the coefficients of a power expansion of an entire function on the growth of its maximum modulus. (Russian. Russian summary) **2004c:30048**
Handelman, David More eventual positivity for analytic functions. (English summary) **2004g:42012**
Kasana, H. S. Proximate order and lower type of entire gap power series. (English summary) **2004j:30046**
Kayumov, I. R. A distortion theorem for univalent gap series. (Russian. Russian summary) **2004k:30037**
Koepf, Wolfram A. Power series, Bieberbach conjecture and the de Branges and Weinstein functions. (English summary) **2004m:68293**
Luh, Wolfgang *see* **Arakelyan, N. U., 2004j:30004**
MacGregor, Thomas H. (*with* Sterner, Michael P.) Hadamard products with power functions and multipliers of Hardy spaces. (English summary) **2004e:30059**
Neher, Markus Improved validated bounds for Taylor coefficients and for Taylor remainder series. (English summary) **2004f:65058**
— *see also* **Eble, Ingo, 2004g:65026**
Nestoridis, V. A strong notion of universal Taylor series. (English summary) **2004h:30002**
Robinson, Mark P. *see* **Biles, Daniel C. et al., 2004a:34003**
Roseau, Alain On the solutions of the biconfluent Heun equations. (English summary) **2004g:34148**
Schmieder, Gerald *see* **Arakelyan, N. U., 2004a:30003**
Spraker, John S. *see* **Biles, Daniel C. et al., 2004a:34003**
Sterner, Michael P. *see* **MacGregor, Thomas H., 2004e:30059**
Yousefi, B. (*with* Amiri, Nasser) On the Banach space of formal Laurent series. (English summary) **2004a:46029**

30B20 Random power series

Items with secondary classifications in 30B20

Farahmand, K. (*with* Grigorash, A.) Expected density of complex roots of random polynomials. (English summary) **2004d:30012**
Gao, Zong Sheng (*with* Sun, Dao Chun) Random Dirichlet series dealing with small functions. (Chinese. English and Chinese summaries) **2004c:60052**
Grigorash, A. *see* **Farahmand, K., 2004d:30012**
Ren, Yao Feng *see* **Tian, Fan-ji, 2004h:30006** *and* **2004h:30007**
Sun, Dao Chun *see* **Gao, Zong Sheng, 2004c:60052**
Tian, Fan-ji (*with* Ren, Yao Feng) The value distribution of random Dirichlet series on the right half plane. II. (English summary) **2004h:30006**
— (*with* Ren, Yao Feng) Dirichlet spaces and random Dirichlet series in the right half plane. (English and Chinese summaries) **2004h:30007**

30B30 Boundary behavior of power series, over-convergence

Nestoridis, V. A strong notion of universal Taylor series. (English summary) **2004h:30002**

Items with secondary classifications in 30B30

Kot, Piotr Description of simple exceptional sets in the unit ball. (English summary) **2004k:32008**

30B40 Analytic continuation

Agranovsky, Mark L. (*with* Globevnik, Josip) Analyticity on circles for rational and real-analytic functions of two real variables. (English summary) **2004j:30003**
Arakelyan, N. U. (*with* Schmieder, Gerald) Analytic continuation of power series to planar Riemann surfaces. (Russian. English and Russian summaries) **2004a:30003**
— (*with* Luh, Wolfgang) Efficient analytic continuation of power series by matrix summation methods. (English summary) **2004j:30004**
Björn, Anders Removable singularities for analytic functions in BMO and locally Lipschitz spaces. (English summary) **2004i:30003**
Edigarian, Armen (*with* Wiegerinck, Jan) Graphs that are not complete pluripolar. (English summary) **2004b:30005**
Globevnik, Josip *see* **Agranovsky, Mark L., 2004j:30003**
Krivosheev, A. S. Analytic continuation of functions from invariant subspaces. (Russian)
Luh, Wolfgang *see* **Arakelyan, N. U., 2004j:30004**
Mochalina, E. P. On a criterion for the analytic continuability of a function from an interval. (Russian)
Rechkoski, N. (*with* Rechkoski, Vasko) Analytic representation of distribution as an analytic continuation of a power series. (English and Macedonian summaries)
Rechkoski, Vasko *see* **Rechkoski, N.**
Rusev, Pet″r K. Holomorphic extension of locally Hölder functions. (English summary) **2004b:30006**
Schmieder, Gerald *see* **Arakelyan, N. U., 2004a:30003**
Tumanov, A. A Morera type theorem in the strip. **2004k:30004**
Wiegerinck, Jan *see* **Edigarian, Armen, 2004b:30005**

Items with secondary classification in 30B40

Alzugaray, Maria Teresa On growth and domains of holomorphy of functions that are analytic in a disk and generate Pólya frequency sequences. (English summary) **2004b:30016**
Berg, Christian (*with* Pedersen, Henrik L.) Pick functions related to the gamma function. (English summary) **2004h:33007**
Boonen, Christelle (*with* Frerick, Leonhard) Extension operators with analytic values. (English summary) **2004j:46031**
Frerick, Leonhard *see* **Boonen, Christelle, 2004j:46031**
Karp, Dmitrii Hypergeometric reproducing kernels and analytic continuation from a half-line. (English summary) **2004m:46061**
Napalkov, V. V. On the problem of the continuation of analytic functions. (Russian) **2004c:32018**
Pedersen, Henrik L. *see* **Berg, Christian, 2004h:33007**

30B50 Dirichlet series and other series expansions, exponential series [see also 11M41, 42–XX]

Artee Growth properties of a class of entire double Dirchlet sequences. (English summary)
Belous, T. I. *see* **Gaĭsin, A. M., 2004d:30004**
Berland, Marcel Ultraconvergence et singularités pour une classe de séries d'exponentielles. (English and French summaries) [Ultraconvergence and singularities for a class of exponential series] **2004g:30004**
Boivin, André (*with* Zhu, Changzhong) The growth of an entire function and its Dirichlet coefficients and exponents. (English summary) **2004c:30004**
Chen, Te Wei (*with* Sun, Dao Chun) On the growth of infinite order Dirichlet series. (English summary) **2004e:30002**
De Angelis, Valerio Asymptotic expansions and positivity of coefficients for large powers of analytic functions. (English summary) **2004e:30003**
Deng, Guan Tie Growth of entire functions represented by Dirichlet series. (Chinese. English and Chinese summaries) **2004b:30007**
Fedynyak, S. I. (*with* Sheremeta, Myroslav M.) Asymptotic values of entire Dirichlet series with respect to its maximal term. (English and Russian summaries) **2004h:30003**
Fīlevich, Petro (*with* Sheremeta, Myroslav M.) Regularly increasing Dirichlet series that converge absolutely in a half-plane. (Russian) **2004e:30004**
— Asymptotic relations between the means of Dirichlet series and their application. (English and Russian summaries) **2004j:30005**
— (*with* Sheremeta, Myroslav M.) Regularly increasing entire Dirichlet series. (Russian. Russian summary) **2004k:30005**
Forster, Brigitte Inverse approximation theorems for Dirichlet series in $AC(\overline{D})$. (English summary) **2004m:30002**
Gaĭsin, A. M. (*with* Belous, T. I.) Estimation over curves of functions specified by Dirichlet series in a half-space. (Russian. Russian summary) **2004d:30004**
Galelyuk, G. D. *see* **Vinnitskiĭ, B. V.**
Huang, Zhi Bo (*with* Sun, Dao Chun) The growth of Dirichlet series of infinite order. (Chinese. English and Chinese summaries)
— (*with* Sun, Dao Chun) Dirichlet series of infinite order. (Chinese. English and Chinese summaries)
McCarthy, John E. Hilbert spaces of Dirichlet series and their multipliers. (English summary) **2004j:30006**
Melikhov, Sergeĭ Nikolaevich (*with* Momm, Siegfried) Coefficients of Dirichlet series of analytic functions. (Russian) **2004h:30004**
Mikityuk, L. Ya. (*with* Sheremeta, Myroslav M.) On the rate of convergence of partial sums of a Drichlet series. (Ukrainian. English, Russian and Ukrainian summaries) **2004b:30008**
— (*with* Sheremeta, Myroslav M.) On the remainder of Dirichlet series. (English and Russian summaries) **2004h:30005**
Momm, Siegfried *see* **Melikhov, Sergeĭ Nikolaevich, 2004h:30004**
Musin, I. Kh. On the representation of infinitely differentiable functions by series of exponentials. (Russian. Russian summary) **2004d:30005**
Ren, Yao Feng *see* **Tian, Fan-ji, 2004h:30006** *and* **2004h:30007**
Salo, T. M. (*with* Skaskīv, O. B.; Stasyuk, Ya. Z.) On a central exponent of entire Dirichlet series. (English and Russian summaries) **2004e:30005**
— *see also* **Skaskīv, O. B., 2004k:30006**
Shaker Abdul-Hussein, Mushtaq (*with* Srivastava, G. S.) Bornological properties of the space of entire functions. (English summary) **2004b:30009**
Shapovalovskiĭ, A. V. A remark on the derivative of entire Dirichlet series. (English and Russian summaries) **2004e:30006**
Sheremeta, Myroslav M. (*with* Sumik, O. M.; Zelisko, M. M.) On the boundedness of L-M- and L-μ-index of the Dirichlet series. (English and Russian summaries) **2004m:30003**
— On the maximum modulus and maximum term of a Dirichlet series. (Russian. Russian summary) **2004g:30005**
— *see also* **Mikityuk, L. Ya., 2004b:30008**; **2004h:30005**; **Fīlevich, Petro, 2004e:30004**; **2004k:30005**; **Sumik, O. M., 2004e:30007** *and* **Fedynyak, S. I., 2004h:30003**
Skaskīv, O. B. (*with* Salo, T. M.) Entire Dirichlet series of rapid growth and new estimates for the measure of exceptional sets in theorems of Wiman-Valiron type. (Ukrainian. English and Ukrainian summaries) **2004k:30006**
— (*with* Trusevich, O. M.) On exceptional sets in the asymptotic equality between the sum and the maximal term of a positive series that is similar to the Taylor-Dirichlet series. (Ukrainian. English, Russian and Ukrainian summaries) **2004b:30010**
— (*with* Stasyuk, Ya. Z.) On the Wiman theorem for absolutely convergent Dirichlet series. (English and Russian summaries) **2004m:30004**
— *see also* **Salo, T. M. et al., 2004e:30005**
Srivastava, G. S. *see* **Shaker Abdul-Hussein, Mushtaq, 2004b:30009**
Stasyuk, Ya. Z. *see* **Salo, T. M. et al., 2004e:30005** *and* **Skaskīv, O. B., 2004m:30004**
Sumik, O. M. (*with* Sheremeta, Myroslav M.) On connection between the growth of maximum modulus and maximal term of entire Dirichlet series in terms of m-termed asymptotics. (English and Russian summaries) **2004e:30007**
— *see also* **Sheremeta, Myroslav M. et al., 2004m:30003**
Sun, Dao Chun *see* **Chen, Te Wei, 2004e:30002** *and* **Huang, Zhi Bo**
Tian, Fan-ji (*with* Ren, Yao Feng) The value distribution of random Dirichlet series on the right half plane. II. (English summary) **2004h:30006**
— (*with* Ren, Yao Feng) Dirichlet spaces and random Dirichlet series in the right half plane. (English and Chinese summaries) **2004h:30007**
Tomovski, Živorad *see* **Trenčevski, Kostadin G., 2004k:30007**
Trenčevski, Kostadin G. (*with* Tomovski, Živorad) A solution of one old problem. (English summary) **2004k:30007**
Trusevich, O. M. *see* **Skaskīv, O. B., 2004b:30010**
Vinnitskiĭ, B. V. (*with* Galelyuk, G. D.) On entire Dirichlet series bounded in a strip. (English and Russian summaries)
Zelisko, M. M. *see* **Sheremeta, Myroslav M. et al., 2004m:30003**
Zheng, Shao Wei The Dirichlet series of zero-order growth in the right half complex plane. (Chinese. English and Chinese summaries)
Zhu, Changzhong *see* **Boivin, André, 2004c:30004**

Items with secondary classifications in 30B50

Bayart, Frédéric (*with* Mouze, Augustin) Factorialité de l'anneau des séries de Dirichlet analytiques. (English and French summaries) [The ring of analytic Dirichlet series is factorial] **2004b:11130**
— Compact composition operators on a Hilbert space of Dirichlet series. (English summary) **2004j:47049**
Chern, Tien-Yu Peter Inequalities along arcs for Hadamard gap series. (English summary) **2004b:30002**
Gaĭsin, A. M. Estimates for the growth and decrease of an entire function of infinite order on curves. (Russian. Russian summary) **2004m:30041**
Gao, Zong Sheng (*with* Sun, Dao Chun) Random Dirichlet series dealing with small functions. (Chinese. English and Chinese summaries) **2004c:60052**
Genys, J. (*with* Laurinčikas, Antanas) Value distribution of general Dirichlet series. IV. (Russian. English, Russian and Lithuanian summaries) **2004k:60008**
Hedenmalm, Håkan (*with* Saksman, Eero) Carleson's convergence theorem for Dirichlet series. (English summary) **2004d:11080**
Laurinčikas, Antanas (*with* Schwarz, Wolfgang Karl; Steuding, Jörn) Value distribution of general Dirichlet series. III. (English summary) **2004c:60011**
— *see also* **Genys, J., 2004k:60008**
Melikhov, Sergeĭ Nikolaevich Convex conformal mappings and right inverses to the operator of representation by series of exponentials. (Russian) **2004d:30041**
— On the left inverse to the restriction operator on weighted spaces of entire functions. (Russian) **2004a:47031**
Mouze, Augustin *see* **Bayart, Frédéric, 2004b:11130**
Saksman, Eero *see* **Hedenmalm, Håkan, 2004d:11080**
Schwarz, Wolfgang Karl *see* **Laurinčikas, Antanas et al., 2004c:60011**
Shaker Abdul-Hussein, Mushtaq (*with* Srivastava, G. S.) Bornological spaces of entire functions represented by Dirichlet series having slow growth. (English summary) **2004f:30021**
Skaskīv, O. B. (*with* Trakalo, O. M.) Asymptotic estimates for Laplace integrals. (Ukrainian. English and Russian summaries) **2004c:44003**
Srivastava, B. L. On a Banach algebra of a class of vector-valued Dirichlet series. (English summary) **2004h:46056**
Srivastava, G. S. *see* **Shaker Abdul-Hussein, Mushtaq, 2004f:30021**
Steuding, Jörn *see* **Laurinčikas, Antanas et al., 2004c:60011**
Sun, Dao Chun *see* **Gao, Zong Sheng, 2004c:60052**
Trakalo, O. M. *see* **Skaskīv, O. B., 2004c:44003**
Tsumura, Hirofumi On alternating analogues of Tornheim's double series. (English summary) **2004e:11102**
Wang, Zhi Gang (*with* Zhou, De Qiang) Convergence of B-valued bi-random Dirichlet series. (Chinese. English and Chinese summaries)
Zhou, De Qiang *see* **Wang, Zhi Gang**

30B60 Completeness problems, closure of a system of functions

Deng, Guan Tie Incompleteness and closure of a linear span of exponential system in a weighted Banach space. (English summary) **2004m:30005**

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30B70 Continued fractions [see also 11A55, 40A15]

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30Cxx Geometric function theory

30C10 Polynomials

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30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10.}

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30C20 Conformal mappings of special domains

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30C35 General theory of conformal mappings

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30D10 Representations of entire functions by series and integrals

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30D20 Entire functions, general theory

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30D60 Quasi-analytic and other classes of functions

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30Exx Miscellaneous topics of analysis in the complex domain

30E05 Moment problems, interpolation problems

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30E10 Approximation in the complex domain

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30E15 Asymptotic representations in the complex domain

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30Fxx Riemann surfaces

30F10 Compact Riemann surfaces and uniformization [see also 14H15, 32G15]

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30F20 Classification theory of Riemann surfaces

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30F35 Fuchsian groups and automorphic functions [see also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]

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30F45 Conformal metrics (hyperbolic, Poincaré, distance functions)

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30F50 Klein surfaces

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30Gxx Generalized function theory

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30G25 Discrete analytic functions

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30H05 Spaces and algebras of analytic functions [see also 32A38, 46Exx, 46J15]

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31–XX Potential theory {For probabilistic potential theory, see 60J45.}

31–02 Research exposition (monographs, survey articles)

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31–03 Historical (must also be assigned at least one classification number from Section 01)

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31–04 Explicit machine computation and programs (not the theory of computation or programming)

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31Axx Two-dimensional theory

31A05 Harmonic, subharmonic, superharmonic functions

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31A15 Potentials and capacity, harmonic measure, extremal length [see also 30C85]

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31A20 Boundary behavior (theorems of Fatou type, etc.)

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31Bxx Higher-dimensional theory

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31B15 Potentials and capacities, extremal length

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31B20 Boundary value and inverse problems

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31B25 Boundary behavior

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31B30 Biharmonic and polyharmonic equations and functions

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El Kadiri, Mohamed Morphismes finement biharmoniques. (French and Italian summaries) [Finitely biharmonic morphisms] **2004h:31005**
— Une réciproque du théorème de la moyenne pour les fonctions biharmoniques. (English summary) [A converse of the mean value theorem for biharmonic functions] **2004d:31012**
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Deng, Hao (*with* Chen, Zu Chi) Inequalities for eigenvalues of biharmonic operator in weighted Sobolev space. (English and Chinese summaries) **2004e:35170**
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31B35 Connections with differential equations

Items with secondary classifications in 31B35

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Nishio, Masaharu (*with* Shimomura, Katsunori) Caloric morphisms on semi-Euclidean space. (English summary) **2004i:35143**
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Popa, Eugen On a review [MR 97c:31017] by M. Hmissi.
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31Cxx Other generalizations

31C05 Harmonic, subharmonic, superharmonic functions

Belova, N. O. On exceptional sets in L_p potential theory. (Russian. Russian summary)
Chu, Cho-Ho (*with* Vu, Tuan Giao) A Liouville theorem for matrix-valued harmonic functions on nilpotent groups. (English summary) **2004e:31005**
Liu, Hua *see* **Shi, Ji Huai, 2004j:31012**
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Stević, Stevo On Bloch hyperharmonic functions. (English summary) **2004g:31007**
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Chu, Cho-Ho Matrix-valued harmonic functions on groups. (English summary) **2004a:43001**
Cornea, Aurel Solution of the Dirichlet problem on Riemannian manifolds by integration on the unit sphere in the tangent space. (English summary) **2004i:31008**
Imai, Atsushi (*with* Kawasaki, Yasuhiro; Satô, Hiroshi[1]) Martin metrics on the Sierpiński gasket. (English summary) **2004f:60159**
Kaufman, Robert (*with* Llorente, José G.; Wu, Jang-Mei) Nonlinear harmonic measures on trees. (English summary) **2004m:31009**
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Révész, Szilárd Gy. (*with* Sarantopoulos, Yannis) On Markov constants of homogeneous polynomials over real normed spaces. (English summary) **2004h:41011**
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You, Dahae *see* **Bass, Richard F., 2004f:31005**

31C10 Pluriharmonic and plurisubharmonic functions [see also 32U05]

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Amal, Hichame A Hartogs-type theorem for separately holomorphic mappings. (English summary) **2004j:32010**
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— (*with* Levenberg, N.; Ma'u, S. L.) Robin functions and extremal functions. (English summary) **2004i:31010**
Blower, Gordon (*with* Ransford, Thomas) Complex uniform convexity and Riesz measures. (English summary) **2004m:46020**
Coffman, Adam (*with* Legg, D. A.; Pan, Y. F.) A Taylor series condition for harmonic extensions. (English summary) **2004c:31006**
Dubtsov, E. S. The multidimensional Ivashev-Musatov theorem and slice measures. (Russian. Russian summary) **2004a:32011**
— Bounded cyclic functions in the ball. (Russian. English and Russian summaries) **2004k:32006**
Edigarian, Armen (*with* Wiegerinck, Jan) The pluripolar hull of the graph of a holomorphic function with polar singularities. (English summary) **2004j:30017**
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— (*with* Wiegerinck, Jan) Graphs that are not complete pluripolar. (English summary) **2004b:30005**
Haggui, Fathi Fonctions FSH sur une variété presque complexe. (English and French summaries) [Plurisubharmonic functions in almost complex manifolds] **2004a:32040**
(Lárusson, Finnur) *see* **Edigarian, Armen**, **2004d:32048**
Legg, D. A. *see* **Coffman, Adam et al.**, **2004c:31006**
Levenberg, N. *see* **Bloom, T. et al.**, **2004i:31010** *and* **2004j:32035**
Maergoiz, L. S. ★ Asymptotic characteristics of entire functions and their applications in mathematics and biophysics. **2004m:30042**
Ma'u, S. L. *see* **Bloom, T. et al.**, **2004i:31010**
Mourougane, Christophe Interpolation in non-positively curved Kähler manifolds. (English summary) **2004b:32035**
Pan, Y. F. *see* **Coffman, Adam et al.**, **2004c:31006**
Perotti, Alessandro Tangential form of the trace condition for pluriharmonic functions in $\mathbb{C}^n$. (English summary) **2004i:32053**
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31C12 Potential theory on Riemannian manifolds [see also 53C20; for Hodge theory, see 58A14]

Cornea, Aurel Solution of the Dirichlet problem on Riemannian manifolds by integration on the unit sphere in the tangent space. (English summary) **2004i:31008**
Kim, Seok Woo (*with* Lee, Yong Hah) Rough isometry and energy-finite solutions for the Schrödinger operator on Riemannian manifolds. (English summary) **2004k:31017**
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Symeonidis, Eleutherius The factorization of the Poisson integral on elliptic and hyperbolic spaces. (English summary) **2004g:31008**
— The Poisson integral for a ball in spaces of constant curvature. (English summary) **2004k:31018**
Wang, Feng Yu *see* **Röckner, Michael**, **2004j:31013**

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Anandam, V. (*with* Othman, S. I.) Symmetric harmonic sheaves possessing bipotentials. (English summary) **2004d:31018**
— *see also* **Othman, S. I.**, **2004j:30082**
Barletta, Elisabetta Subelliptic F-harmonic maps. (English summary) **2004m:58027**
Damlakhi, Moustafa K. Riquier problem in a biharmonic space. (English summary) **2004e:31008**
Domenichino, Cyrille Propriétés de moyenne pour les fonctions $\mathscr{M}$-harmoniques. (French summary) [Mean value properties for $\mathscr{M}$-harmonic functions] **2004f:31001**
Holopainen, Ilkka (*with* Shanmugalingam, Nageswari) Singular functions on metric measure spaces. (English summary) **2004g:31012**
Masumoto, Makoto Extremal lengths of homology classes on compact Riemann surfaces. (English summary) **2004d:30071**
Othman, S. I. (*with* Anandam, V.) Biharmonic classification of Riemannian spaces. (English summary) **2004j:30082**
— *see also* **Anandam, V.**, **2004d:31018**
Qiu, Jing-hua *see* **Yang, Qiao**, **2004j:32024**
Shanmugalingam, Nageswari *see* **Holopainen, Ilkka**, **2004g:31012**
Xu, Xian Min Normal and quasinormal composition operators on Riemann surfaces. (Chinese. English and Chinese summaries) **2004h:47038**
Yang, Qiao (*with* Qiu, Jing-hua) Some growth rates of certain holomorphic maps. (English summary) **2004j:32024**

31C15 Potentials and capacities

Arendt, Wolfgang (*with* Warma, Mahamadi) The Laplacian with Robin boundary conditions on arbitrary domains. (English summary) **2004d:31013**
Bloom, T. (*with* Levenberg, N.; Ma'u, S. L.) Robin functions and extremal functions. (English summary) **2004i:31010**
Chen, Ke Ying Modulus and capacity in metric measure spaces. (Chinese. English and Chinese summaries) **2004d:31014**
Keith, Stephen Modulus and the Poincaré inequality on metric measure spaces. (English summary) **2004k:31019**
Latyshev, A. A. *see* **Zorīĭ, N. V.**, **2004i:31011**
Levenberg, N. *see* **Bloom, T. et al.**, **2004i:31010**
Markina, Irina On coincidence of p-module of a family of curves and p-capacity on the Carnot group. (English summary) **2004c:31012**
Ma'u, S. L. *see* **Bloom, T. et al.**, **2004i:31010**
Tamrazov, Promarz M. Batteries and energy minimization problems. (English summary) **2004j:31014**
Warma, Mahamadi *see* **Arendt, Wolfgang**, **2004d:31013**
Zorīĭ, N. V. Extremal problems in the theory of condenser capacities in locally compact spaces. III. (Russian. English and Ukrainian summaries) **2004m:31007**
— (*with* Latyshev, A. A.) Extremal problems in logarithmic potential theory. (Russian. English and Ukrainian summaries) **2004i:31011**

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Ambrosio, Luigi (*with* Tilli, Paolo) ★ Selected topics on "analysis in metric spaces". **2004f:28002**
— (*with* Tilli, Paolo) ★ Topics on analysis in metric spaces. **2004k:28001**
Aral, A. On generalized potentials-type integral operators with non-isotropic kernels. (English summary)
Arendt, Wolfgang (*with* Warma, Mahamadi) Dirichlet and Neumann boundary conditions: What is in between? (English summary) **2004d:35051**
Cohn, William S. (*with* Lu, Guozhen; Lu, Shan Zhen) Higher order Poincaré inequalities associated with linear operators on stratified groups and applications. (English summary) **2004d:46037**
Droniou, Jérôme (*with* Porretta, Alessio; Prignet, Alain) Parabolic capacity and soft measures for nonlinear equations. (English summary) **2004c:35179**
Hambly, B. M. (*with* Nyberg, S. O. G.) Finitely ramified graph-directed fractals, spectral asymptotics and the multidimensional renewal theorem. (English summary) **2004a:28014**
He, Kai (*with* Ren, Jiagang) Quasi sure quadratic variation of local times of smooth semimartingales. (English summary) **2004j:60112**
Holopainen, Ilkka (*with* Shanmugalingam, Nageswari) Singular functions on metric measure spaces. (English summary) **2004g:31012**
Latvala, Visa A strong Lebesgue point property for Sobolev functions. (English summary) **2004m:46073**
Lu, Guozhen *see* **Cohn, William S. et al.**, **2004d:46037**
Lu, Shan Zhen *see* **Cohn, William S. et al.**, **2004d:46037**
Markina, Irina Extremal widths on homogeneous groups. (English summary) **2004k:31010**
Mosco, Umberto Distance, mass and energy in analysis. (English summary) **2004e:00005**
Nyberg, S. O. G. *see* **Hambly, B. M.**, **2004a:28014**
Porretta, Alessio *see* **Droniou, Jérôme et al.**, **2004c:35179**
Prignet, Alain *see* **Droniou, Jérôme et al.**, **2004c:35179**
Ren, Jiagang *see* **He, Kai**, **2004j:60112**
Shanmugalingam, Nageswari *see* **Holopainen, Ilkka**, **2004g:31012**
Tilli, Paolo *see* **Ambrosio, Luigi**, **2004f:28002** *and* **2004k:28001**
Trutnau, Gerald Skorokhod decomposition of reflected diffusions on bounded Lipschitz domains with singular non-reflection part. (English summary) **2004j:60173**
Warma, Mahamadi *see* **Arendt, Wolfgang**, **2004d:35051**

31C20 Discrete potential theory and numerical methods

Amghibech, S. Eigenvalues of the discrete p-Laplacian for graphs. (English summary) **2004b:31008**
Bajunaid, Ibtesam (*with* Cohen, Joel M.; Colonna, Flavia; Singman, David) Trees as Brelot spaces. (English summary) **2004d:31015**
Boboc, Nicu (*with* Bucur, Gheorghe) Aspects of number theory in terms of potential theory. **2004m:31008**
Bucur, Gheorghe *see* **Boboc, Nicu**, **2004m:31008**
Calvert, Bruce D. Monotone multiterminal resistors and large networks. (English summary) **2004c:31013**
Cohen, Joel M. *see* **Bajunaid, Ibtesam et al.**, **2004d:31015**
Colonna, Flavia *see* **Bajunaid, Ibtesam et al.**, **2004d:31015**
Gowrisankaran, Kohur (*with* Singman, David) Tangential limits of potentials on homogeneous trees. (English summary) **2004g:31009**
Janssen, K. Choquet-type integral representation of invariant functions for some product semigroups. (English summary) **2004c:31014**
Kaufman, Robert (*with* Llorente, José G.; Wu, Jang-Mei) Nonlinear harmonic measures on trees. (English summary) **2004m:31009**
Kenyon, Richard W. The Laplacian and Dirac operators on critical planar graphs. (English summary) **2004c:31015**
Lee, Yong Hah Rough isometry and energy finite solutions of the Schrödinger operator on graphs. (English summary) **2004a:31004**
Liu, Yuan[1] Dirichlet form of product of variational fractals. (English summary) **2004h:31009**
Llorente, José G. *see* **Kaufman, Robert et al.**, **2004m:31009**
Singman, David *see* **Bajunaid, Ibtesam et al.**, **2004d:31015** *and* **Gowrisankaran, Kohur**, **2004g:31009**
Sobolev, Aleksandr Vladimirovich[2] (*with* Solomyak, Michael) Schrödinger operators on homogeneous metric trees: spectrum in gaps. (English summary) **2004b:31009**
Solomyak, Michael *see* **Sobolev, Aleksandr Vladimirovich[2]**, **2004b:31009**
Takeuchi, Hiroshi[2] The spectrum of the p-Laplacian and p-harmonic morphisms on graphs. (English summary) **2004g:31010**
Wu, Jang-Mei *see* **Kaufman, Robert et al.**, **2004m:31009**

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Balogh, Zoltán M. (*with* Tyson, Jeremy T.) Potential theory in Carnot groups. (English summary) **2004g:43006**
Bendito, Enrique (*with* Carmona, Ángeles; Encinas, Andrés M.) Solving Dirichlet and Poisson problems on graphs by means of equilibrium measures. (English summary) **2004f:05108**
Carmona, Ángeles *see* **Bendito, Enrique et al.**, **2004f:05108**
Encinas, Andrés M. *see* **Bendito, Enrique et al.**, **2004f:05108**
Herman, P. Edward (*with* Peirone, Roberto; Strichartz, Robert S.) p-energy and p-harmonic functions on Sierpinski gasket type fractals. (English summary) **2004k:31023**

Peirone, Roberto *see* **Herman, P. Edward et al., 2004k:31023**
Sabot, Christophe Spectral properties of self-similar lattices and iteration of rational maps. (English and French summaries) **2004d:82016**
Solomyak, Michael Laplace and Schrödinger operators on regular metric trees: the discrete spectrum case. **2004h:34172**
Strichartz, Robert S. (*with* Wong, Carto) The p-Laplacian on the Sierpinski gasket. (English summary) **2004k:28025**
— *see also* **Herman, P. Edward et al., 2004k:31023**
Tyson, Jeremy T. *see* **Balogh, Zoltán M., 2004g:43006**
Wong, Carto *see* **Strichartz, Robert S., 2004k:28025**
Zucca, Fabio Strong and weak mean value properties on trees. (English summary) **2004d:60193**

31C25 Dirichlet spaces

Andreev, Valentin V. (*with* Matheson, Alec L.) Quadratic extremal problems on the Dirichlet space. (English summary) **2004f:31006**
Boboc, Nicu (*with* Bucur, Gheorghe) Dilation operators on Dirichlet spaces. (English summary) **2004h:31010**
Bucur, Gheorghe *see* **Boboc, Nicu, 2004h:31010**
Cipriani, Fabio (*with* Grillo, Gabriele) The Markov property for classes of nonlinear parabolic equations. (English summary) **2004d:31016**
Fitzsimmons, Patrick J. (*with* Kuwae, Kazuhiro) Non-symmetric perturbations of symmetric Dirichlet forms. (English summary) **2004k:31020**
Grillo, Gabriele *see* **Cipriani, Fabio, 2004d:31016**
Grinshpan, Anatolii Electrostatics, hyperbolic geometry and wandering vectors. (English summary) **2004j:31015**
Hino, Masanori On Dirichlet spaces over convex sets in infinite dimensions. (English summary) **2004g:31011**
Kassmann, Moritz On regularity for Beurling-Deny type Dirichlet forms. (English summary) **2004a:31005**
Kigami, Jun Harmonic analysis for resistance forms. (English summary) **2004m:31010**
Koskela, Pekka (*with* Rajala, Kai; Shanmugalingam, Nageswari) Lipschitz continuity of Cheeger-harmonic functions in metric measure spaces. (English summary) **2004e:31006**
Kuwae, Kazuhiro *see* **Fitzsimmons, Patrick J., 2004k:31020**
Lőbus, Jörg-Uwe Closability of positive symmetric bilinear forms with applications to classical and stable forms on finite and infinite dimensional state spaces. **2004j:31016**
Matheson, Alec L. *see* **Andreev, Valentin V., 2004f:31006**
Popescu, Emil[2] On the subordination of resolvents and Dirichlet forms. (English summary)
Rajala, Kai *see* **Koskela, Pekka et al., 2004e:31006**
Shanmugalingam, Nageswari *see* **Koskela, Pekka et al., 2004e:31006**
Stanley, Jeremy (*with* Strichartz, Robert S.; Teplyaev, A. V.) Energy partition on fractals. (English summary) **2004a:31006**
Strichartz, Robert S. *see* **Stanley, Jeremy et al., 2004a:31006**
Teplyaev, A. V. *see* **Stanley, Jeremy et al., 2004a:31006**
Trutnau, Gerald On a class of non-symmetric diffusions containing fully nonsymmetric distorted Brownian motions. (English summary) **2004a:31007**
Vogt, Hendrik (*with* Voigt, Jürgen) Wentzell boundary conditions in the context of Dirichlet forms. (English summary) **2004k:31021**
Voigt, Jürgen *see* **Vogt, Hendrik, 2004k:31021**
Wang, Feng (*with* Zhang, Yu Hui[2]) F-Sobolev inequality for general symmetric forms. (English summary) **2004d:31017**
Zhang, Yu Hui[2] *see* **Wang, Feng, 2004d:31017**

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Al'beverio, S. A. (*with* Kondrat'ev, Yu. G.; Röckner, Michael) Strong Feller properties for distorted Brownian motion and applications to finite particle systems with singular interactions. (English summary) **2004c:60221**
Arendt, Wolfgang (*with* Warma, Mahamadi) The Laplacian with Robin boundary conditions on arbitrary domains. (English summary) **2004d:31013**
Bendikov, A. D. (*with* Saloff-Coste, Laurent) Invariant local Dirichlet forms on locally compact groups. (English and French summaries) **2004m:60162**
— (*with* Saloff-Coste, Laurent) On the sample paths of Brownian motions on compact infinite dimensional groups. (English summary) **2004f:60171**
Ben Othman, Sonia (*with* Bouaziz, Slim; Hmissi, Mohamed) On subordination of convolution semigroups. (English summary) **2004k:60013**
Bonaccorsi, Stefano (*with* Zambotti, Lorenzo) Integration by parts on the Brownian meander. (English summary) **2004j:60111**
Bonciocat, Anca Iuliana On Beurling-Deny formula for quasi-regular Dirichlet forms. (English summary) **2004e:60129**
Bouaziz, Slim *see* **Ben Othman, Sonia et al., 2004k:60013**
Boutet de Monvel-Berthier, Anne-Marie (*with* Stollmann, Peter) Eigenfunction expansions for generators of Dirichlet forms. (English summary) **2004m:58049**
Chen, Zhen-Qing (*with* Zhang, Tu-Sheng) Girsanov and Feynman-Kac type transformations for symmetric Markov processes. (English and French summaries) **2004e:60128**
— (*with* Song, Renming) Hardy inequality for censored stable processes. (English summary) **2004f:60157**
Cipriani, Fabio (*with* Grillo, Gabriele) Nonlinear Markov semigroups, nonlinear Dirichlet forms and applications to minimal surfaces. (English summary) **2004h:60117**
Demuth, Michael (*with* Noll, André) Equilibrium potentials in scattering theory. (English summary) **2004a:47010**
Fukushima, Masatoshi (*with* Uemura, Toshihiro) Capacitary bounds of measures and ultracontractivity of time changed processes. (English and French summaries) **2004f:60161**
Gallardo-Gutiérrez, Eva A. (*with* Montes-Rodríguez, Alfonso) Adjoints of linear fractional composition operators on the Dirichlet space. (English summary) **2004h:47036**
Ghosechowdhury, Subhajit A local expansion theorem for the Löwner equation. (English summary) **2004j:30028**
Grigor'yan, Alexander (*with* Yau, Shing Tung) Isoperimetric properties of higher eigenvalues of elliptic operators. (English summary) **2004g:58041**
Grillo, Gabriele *see* **Cipriani, Fabio, 2004h:60117**
Hambly, B. M. (*with* Nyberg, S. O. G.) Finitely ramified graph-directed fractals, spectral asymptotics and the multidimensional renewal theorem. (English summary) **2004a:28014**
He, Kai (*with* Ren, Jiagang) Quasi sure quadratic variation of local times of smooth semimartingales. (English summary) **2004j:60112**
Hedayatian, K. *see* **Yousefi, B., 2004c:30066**
Hino, Masanori (*with* Ramírez, José A.) Small-time Gaussian behavior of symmetric diffusion semigroups. (English summary) **2004f:60167**
Hmissi, Mohamed *see* **Ben Othman, Sonia et al., 2004k:60013**
Hu, Peng Yan (*with* Zhang, Wen Jun[1]) Hankel and multiplication operators on Dirichlet type spaces on the unit ball of $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **2004j:47060**
Kaneko, Hiroshi[2] Time-inhomogeneous stochastic processes on the p-adic number field. (English summary) **2004e:60095**
Kasue, Atsushi Convergence and energy forms in measure metric spaces. (Japanese) **2004i:53047**
Kazantsev, A. V. Hyperbolic derivatives with pre-Schwarzians from a Bloch space. (Russian) **2004d:30059**
Kondrat'ev, Yu. G. *see* **Al'beverio, S. A. et al., 2004c:60221**
Liskevich, Vitali (*with* Us, Oleksiy) L^p-uniqueness for Dirichlet operators with singular potentials. (English summary) **2004b:47065**
Liu, Yuan[1] Dirichlet form of product of variational fractals. (English summary) **2004h:31009**
Montes-Rodríguez, Alfonso *see* **Gallardo-Gutiérrez, Eva A., 2004h:47036**
Mosco, Umberto Distance, mass and energy in analysis. (English summary) **2004e:00005**
Noll, André *see* **Demuth, Michael, 2004a:47010**
Nyberg, S. O. G. *see* **Hambly, B. M., 2004a:28014**
Oshima, Yoichi On the exceptionality of some semipolar sets of time inhomogeneous Markov processes. (English summary) **2004e:60130**
— On a construction of diffusion processes on moving domains. (English summary) **2004m:60170**
Ramírez, José A. *see* **Hino, Masanori, 2004f:60167**
Ren, Jiagang *see* **He, Kai, 2004j:60112**
Ren, Yao Feng *see* **Tian, Fan-ji, 2004h:30007**
Röckner, Michael (*with* Zhang, Tu-Sheng) Lower order perturbations of Dirichlet processes. (English summary) **2004b:60195**
— (*with* Wang, Feng Yu) On the spectrum of a class of non-sectorial diffusion operators. (English summary) **2004j:31013**
— *see also* **Al'beverio, S. A. et al., 2004c:60221**
Saloff-Coste, Laurent *see* **Bendikov, A. D., 2004f:60171** *and* **2004m:60162**
Schmuland, Byron (*with* Sun, Wei[3]) The law of large numbers and the law of the iterated logarithm for infinite dimensional interacting diffusion processes. (English summary) **2004j:60202**
Serra, António Interpolating sequences in harmonically weighted Dirichlet spaces. (English summary) **2004b:30069**
Song, Renming (*with* Vondraček, Zoran) Potential theory of subordinate killed Brownian motion in a domain. (English summary) **2004g:60110**
— *see also* **Chen, Zhen-Qing, 2004f:60157**
Stollmann, Peter *see* **Boutet de Monvel-Berthier, Anne-Marie, 2004m:58049**
Sun, Wei[3] *see* **Schmuland, Byron, 2004j:60202**
Tian, Fan-ji (*with* Ren, Yao Feng) Dirichlet spaces and random Dirichlet series in the right half plane. (English and Chinese summaries) **2004h:30007**
Trutnau, Gerald Skorokhod decomposition of reflected diffusions on bounded Lipschitz domains with singular non-reflection part. (English summary) **2004j:60173**
Uemura, Toshihiro *see* **Fukushima, Masatoshi, 2004f:60161**
Us, Oleksiy *see* **Liskevich, Vitali, 2004b:47065**
Vondraček, Zoran *see* **Song, Renming, 2004g:60110**
Wang, Feng Yu *see* **Röckner, Michael, 2004j:31013**
Warma, Mahamadi *see* **Arendt, Wolfgang, 2004d:31013**
Yau, Shing Tung *see* **Grigor'yan, Alexander, 2004g:58041**
Yousefi, B. (*with* Hedayatian, K.) Invariant subspaces of the Dirichlet-type space. (English summary) **2004c:30066**
Zambotti, Lorenzo *see* **Bonaccorsi, Stefano, 2004j:60111**
Zhang, Tu-Sheng *see* **Röckner, Michael, 2004b:60195** *and* **Chen, Zhen-Qing, 2004e:60128**
Zhang, Wen Jun[1] *see* **Hu, Peng Yan, 2004j:47060**

31C35 Martin boundary theory [see also 60J50]

Aikawa, Hiroaki The Martin boundary and the boundary Harnack principle for complicated domains. (Japanese) **2004m:31011**
Bliedtner, Jürgen (*with* Loeb, Peter Albert) Sturdy harmonic functions and their integral representations. (English summary) **2004k:31022**
Loeb, Peter Albert *see* **Bliedtner, Jürgen, 2004k:31022**

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Aikawa, Hiroaki (*with* Lundh, Torbjörn; Mizutani, Tomohiko) Martin boundary of a fractal domain. (English summary) **2004a:31002**
Boboc, Nicu (*with* Bucur, Gheorghe) Aspects of number theory in terms of potential theory. **2004m:31008**
Bucur, Gheorghe *see* **Boboc, Nicu, 2004m:31008**
El Mabrouk, Khalifa Semilinear perturbations of harmonic spaces, Liouville property and a boundary value problem. (English summary) **2004a:31008**
Gowrisankaran, Kohur (*with* Singman, David) Tangential limits of potentials on homogeneous trees. (English summary) **2004g:31009**
Imai, Atsushi (*with* Kawasaki, Yasuhiro; Satô, Hiroshi[1]) Martin metrics on the Sierpiński gasket. (English summary) **2004f:60159**
Ji, Lizhen (*with* MacPherson, Robert D.) Geometry of compactifications of locally symmetric spaces. (English and French summaries) **2004h:22006**
Kawasaki, Yasuhiro *see* **Imai, Atsushi et al., 2004f:60159**

Lundh, Torbjörn *see* **Aikawa, Hiroaki et al., 2004a:31002**
MacPherson, Robert D. *see* **Ji, Lizhen, 2004h:22006**
Mizutani, Tomohiko *see* **Aikawa, Hiroaki et al., 2004a:31002**
Murata, Minoru (*with* Tsuchida, Tetsuo) Asymptotics of Green functions and Martin boundaries for elliptic operators with periodic coefficients. (English summary) **2004k:35067**
Satô, Hiroshi[1] *see* **Imai, Atsushi et al., 2004f:60159**
Singman, David *see* **Gowrisankaran, Kohur, 2004g:31009**
Tsuchida, Tetsuo *see* **Murata, Minoru, 2004k:35067**

31C40 Fine potential theory

El Kadiri, Mohamed Fonctions séparément finement subharmoniques. (English and French summaries) [Separately finiely superharmonic functions] **2004j:31017**
— Sur les suites de fonctions finement harmoniques. (English summary) [Sequences of finely harmonic functions]

Items with secondary classifications in 31C40

Bensouda, Charaf (*with* El Kadiri, Mohamed; Rouchdi, I.) Fonctions finement biharmoniques dans un espace biharmonique. (English summary) [Finely biharmonic functions in a biharmonic space] **2004k:31025**
El Kadiri, Mohamed *see* **Bensouda, Charaf et al., 2004k:31025**
Rouchdi, I. *see* **Bensouda, Charaf et al., 2004k:31025**

31C45 Other generalizations (nonlinear potential theory, etc.)

Björn, Anders (*with* Björn, Jana; Shanmugalingam, Nageswari) The Perron method for p-harmonic functions in metric spaces. (English summary) **2004i:31012**
— (*with* Björn, Jana; Shanmugalingam, Nageswari) The Dirichlet problem for p-harmonic functions on metric spaces. (English summary) **2004e:31007**
Björn, Jana *see* **Björn, Anders et al., 2004e:31007** *and* **2004i:31012**
El Mabrouk, Khalifa Semilinear perturbations of harmonic spaces, Liouville property and a boundary value problem. (English summary) **2004a:31008**
Faraco, Daniel Rigidity of sets of matrices. (*see* **2004k:30001**)
Guliyev, Aslan D. On elimination in Hölder classes for non-linear potentials. (English and Azerbaijani summaries)
Herman, P. Edward (*with* Peirone, Roberto; Strichartz, Robert S.) p-energy and p-harmonic functions on Sierpinski gasket type fractals. (English summary) **2004k:31023**
Holopainen, Ilkka (*with* Shanmugalingam, Nageswari) Singular functions on metric measure spaces. (English summary) **2004g:31012**
Kaiser, Gerald Complex-distance potential theory, wave equations, and physical wavelets. (English summary) **2004a:31009**
Kilpeläinen, Tero (*with* Zhong, Xiao) Growth of entire $\mathcal{A}$-subharmonic functions. (English summary) **2004j:31018**
Kinnunen, Juha (*with* Martio, Olli) Potential theory of quasiminimizers. (English summary) **2004b:31010**
— (*with* Martio, Olli) Sobolev space properties of superharmonic functions on metric spaces. (English summary) **2004i:31013**
Kurta, Vasilii V. About a Liouville phenomenon. (English and French summaries) **2004k:31024**
Liu, Jian Cheng An energy-growth property for p-harmonic maps. (Chinese. English and Chinese summaries)
Liu, Lu Qin *see* **Wu, Chuan-ju, 2004c:31016**
Lou, Hongwei On convexity and weak closeness for the set of Φ-superharmonic functions. (English summary) **2004i:31014**
Martio, Olli *see* **Kinnunen, Juha, 2004b:31010** *and* **2004i:31013**
Peirone, Roberto *see* **Herman, P. Edward et al., 2004k:31023**
Shanmugalingam, Nageswari RNC workshop potential theory in metric spaces. (*see* **2004k:30001**)
— *see also* **Björn, Anders et al., 2004e:31007; 2004i:31012** *and* **Holopainen, Ilkka, 2004g:31012**
Strichartz, Robert S. *see* **Herman, P. Edward et al., 2004k:31023**
Wu, Chuan-ju (*with* Liu, Lu Qin) Polarity for a class of Levy processes. (English summary) **2004c:31016**
Zhong, Xiao *see* **Kilpeläinen, Tero, 2004j:31018**

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Amghibech, S. Eigenvalues of the discrete p-Laplacian for graphs. (English summary) **2004b:31008**
Balogh, Zoltán M. (*with* Tyson, Jeremy T.) Potential theory in Carnot groups. (English summary) **2004g:43006**
— (*with* Manfredi, Juan J.; Tyson, Jeremy T.) Fundamental solution for the Q-Laplacian and sharp Moser-Trudinger inequality in Carnot groups. (English summary) **2004h:35057**
Bass, Richard F. (*with* You, Dahae) A Fatou theorem for α-harmonic functions. (English summary) **2004f:31005**
Droniou, Jérôme (*with* Porretta, Alessio; Prignet, Alain) Parabolic capacity and soft measures for nonlinear equations. (English summary) **2004c:35179**
Fiorenza, Alberto (*with* Prignet, Alain) Orlicz capacities and applications to some existence questions for elliptic PDEs having measure data. (English summary) **2004b:35092**
Gowrisankaran, Kohur (*with* Singman, David) Tangential limits of potentials on homogeneous trees. (English summary) **2004g:31009**
Harjulehto, Petteri (*with* Hästö, Peter A.; Koskenoja, Mika) The Dirichlet energy integral on intervals in variable exponent Sobolev spaces. (English summary) **2004m:46069**
Hästö, Peter A. *see* **Harjulehto, Petteri et al., 2004m:46069**
Kaufman, Robert (*with* Llorente, José G.; Wu, Jang-Mei) Nonlinear harmonic measures on trees. (English summary) **2004m:31009**
Koskenoja, Mika *see* **Harjulehto, Petteri et al., 2004m:46069**
Llorente, José G. *see* **Kaufman, Robert et al., 2004m:31009**
Mâatoug, Lamia Positive solutions of a nonlinear elliptic equation in $\{x \in \mathbf{R}^2 : |x| > 1\}$. (English summary) **2004b:31002**
Maeda, Fumi-Yuki (*with* Ono, Takayori) Perturbation theory for nonlinear Dirichlet problems. (English summary) **2004b:35108**
Malý, Jan Coarea properties of Sobolev functions. (English summary) **2004i:46049**
Manfredi, Juan J. *see* **Balogh, Zoltán M. et al., 2004h:35057**
Ono, Takayori *see* **Maeda, Fumi-Yuki, 2004b:35108**
Porretta, Alessio *see* **Droniou, Jérôme et al., 2004c:35179**
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Raşa, Ion Feller semigroups, elliptic operators and Altomare projections. (English summary) **2004e:47067**
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31D05 Axiomatic potential theory

Al Hemedan, S. (*with* Damlakhi, Moustafa K.) Integral representation of harmonic functions defined outside a compact set in a harmonic space. (English summary) **2004c:31017**
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Postolică, Vasile Pareto efficiency, Choquet boundaries and operators in Hausdorff locally convex spaces. (English summary) **2004a:90083**

32–XX Several complex variables and analytic spaces {For infinite-dimensional holomorphy, see 46G20, 58B12.}

32–01 Instructional exposition (textbooks, tutorial papers, etc.)

Minuţ, Silviu ★ Notes on complex manifolds. **2004i:32001**
Taylor, Joseph L. ★ Several complex variables with connections to algebraic geometry and Lie groups. (English summary) **2004b:32001**

Items with secondary classifications in 32–01

Grauert, Hans (*with* Remmert, Reinhold) ★ Theory of Stein spaces. **2004k:32015**
(Huckleberry, Alan T.) *see* **Grauert, Hans, 2004k:32015**
Krantz, Steven G. ★ Complex analysis: the geometric viewpoint. **2004m:30001**
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Soares, Márcio Gomes ★ Lectures on point residues. **2004m:32009**

32–02 Research exposition (monographs, survey articles)

Graham, Ian (*with* Kohr, Gabriela) ★ Geometric function theory in one and higher dimensions. **2004i:32002**
Kohr, Gabriela *see* **Graham, Ian, 2004i:32002**

Items with secondary classifications in 32–02

Barth, Wolf P. (*with* Hulek, Klaus; Peters, Chris A. M.; Van de Ven, Antonius) ★ Compact complex surfaces. **2004m:14070**
Hulek, Klaus *see* **Barth, Wolf P. et al., 2004m:14070**
Peters, Chris A. M. *see* **Barth, Wolf P. et al., 2004m:14070**
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32–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 32–03

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Ullrich, Peter[1] Die Weierstraßschen "analytischen Gebilde": Alternativen zu Riemanns "Flächen" und Vorboten der komplexen Räume. (English summary) [The Weierstrass "analytic configurations": alternatives to Riemann's "surfaces" and forerunners of complex spaces] **2004d:01019**

32–06 Proceedings, conferences, collections, etc.

(Kim, Kang-Tae) *see* **Conference: Several Complex Variables**

Items listed otherwise than by author

Conference:
Several Complex Variables ★ {Sixth International Conference on Several Complex Variables}.
Gyeongju ★ {Sixth International Conference on Several Complex Variables}.

Items with secondary classifications in 32–06

(Bland, John) *see* **Explorations in complex and Riemannian geometry, 2004g:00022**
(Dragomir, Sorin) *see* **Selected topics in Cauchy-Riemann geometry, 2004j:53004**
(Greene, Robert E.) *see* **Explorations in complex and Riemannian geometry, 2004g:00022**
(Kim, Kang-Tae) *see* **Explorations in complex and Riemannian geometry, 2004g:00022**
(Krantz, Steven G.) *see* **Explorations in complex and Riemannian geometry, 2004g:00022**
(Lê Hùng So'n) *see* **Finite or infinite dimensional complex analysis and applications, 2004k:00017**
(Tutschke, Wolfgang) *see* **Finite or infinite dimensional complex analysis and applications, 2004k:00017**
(Yang, Chung-Chun) *see* **Finite or infinite dimensional complex analysis and applications, 2004k:00017**

Items listed otherwise than by author

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Explorations in complex and Riemannian geometry ★ Explorations in complex and Riemannian geometry. **2004g:00022**
Festschrift:
Greene, Robert Everist ★ Explorations in complex and Riemannian geometry. **2004g:00022**
Finite or infinite dimensional complex analysis and applications ★ Finite or infinite dimensional complex analysis and applications. **2004k:00017**
Hanoi ★ Finite or infinite dimensional complex analysis and applications. **2004k:00017**
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32Axx Holomorphic functions of several complex variables

32A05 Power series, series of functions

Aĭzenberg, L. A. (*with* Liflyand, E.; Vidras, A.) Multidimensional analogue of the van der Corput-Visser inequality and its application to the estimation of the Bohr radius. (English summary) **2004f:32001**
Balser, Werner Recent results on multisummability of power series in several variables. (English summary) **2004f:32002**
Behnam, Hazem Shaba (*with* Srivastava, G. S.) Spaces of analytic functions represented by Dirichlet series of two complex variables. (English summary) **2004g:32001**
Defant, Andreas (*with* García, Domingo; Maestre, Manuel) Maximum moduli of unimodular polynomials. (English summary) **2004m:32001**
Fujita, Keiko (*with* Morimoto, Mitsuo) On the double series expansion of holomorphic functions. (English summary) **2004a:32001**
García, Domingo *see* **Defant, Andreas et al., 2004m:32001**
Jha, H. C. Convergence properties of integral functions of several complex variables. (English summary)
Jiménez Meana, Jorge Conoidal asymptotic expansions. (Spanish. Spanish summary) **2004c:32001**
Kumar, Devendra (*with* Singh, Balbir) Fourier expansions of entire functions of two complex variables. (English summary) **2004m:32002**
Le Hai Khoi Matrix transformations of entire Dirichlet series.
Liflyand, E. *see* **Aĭzenberg, L. A. et al., 2004f:32001**
Maestre, Manuel *see* **Defant, Andreas et al., 2004m:32001**
Morimoto, Mitsuo *see* **Fujita, Keiko, 2004a:32001**
Sanz Gil, Javier Linear continuous extension operators for Gevrey classes on polysectors. (English summary) **2004m:32003**
Singh, Balbir *see* **Kumar, Devendra, 2004m:32002**
Srivastava, G. S. *see* **Behnam, Hazem Shaba, 2004g:32001**
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Aĭzenberg, L. A. (*with* Grossman, I. B.; Korobeĭnik, Yu. F.) Some remarks on the Bohr radius for power series. (Russian) **2004a:30001**
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Grossman, I. B. *see* **Aĭzenberg, L. A. et al., 2004a:30001**
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Mouze, Augustin Sur la composition de séries formelles à croissance contrôlée. (English summary) [The composition of formal power series with controlled growth] **2004i:13028**
Skaskīv, O. B. (*with* Trakalo, O. M.) A sharp estimate for the exceptional set in the Borel relation for entire functions of several variables. (Ukrainian. English and Russian summaries) **2004c:32002**
Srivastava, G. S. *see* **Behnam, Hazem Shaba, 2004d:32001**
Trakalo, O. M. *see* **Skaskīv, O. B., 2004c:32002**

32A07 Special domains (Reinhardt, Hartogs, circular, tube)

Békollé, David (*with* Bonami, Aline) Analysis on tube domains over light cones: some extensions of recent results. (English summary) **2004a:32002**
Bonami, Aline *see* **Békollé, David, 2004a:32002**
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Soldatkin, P. A. Holomorphic equivalence of Reinhardt domains in $\mathbb{C}^2$. (Russian. Russian summary) **2004a:32003**
Stachó, L. L. (*with* Zalar, Borut) Symmetric continuous Reinhardt domains. (English summary) **2004e:32001**
Zalar, Borut *see* **Stachó, L. L., 2004e:32001**
Zhang, Wen Jun[1] (*with* Liu, Tai Shun) On decomposition theorem of normalized biholomorphic convex mappings in Reinhardt domains. (English summary) **2004a:32004**

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Bonami, Aline Three related problems of Bergman spaces of tube domains over symmetric cones. (English summary) **2004k:32005**
Chuah, Meng-Kiat Reinhardt domains and toric models. **2004e:53138**
El-Sayed Ahmed, A. *see* **Kishka, Z. M. G., 2004b:32002**
Gong, Sheng (*with* Liu, Tai Shun) The generalized Roper-Suffridge extension operator. (English summary) **2004g:32014**
Guan, Bing Xin *see* **Yin, Wei Ping, 2004b:32004**
Kishka, Z. M. G. (*with* El-Sayed Ahmed, A.) On the order and type of basic and composite sets of polynomials in complete Reinhardt domains. (English summary) **2004b:32002**
Liflyand, E. *see* **Aĭzenberg, L. A. et al., 2004f:32001**
Liu, Tai Shun (*with* Zhang, Wen Jun[1]) Complete quasiconvex mappings on the polydisc. (Chinese. English and Chinese summaries) **2004m:32029**
— *see also* **Gong, Sheng, 2004g:32014** *and* **Liu, Xiao-song, 2004i:32031**
Liu, Xiao-song (*with* Liu, Tai Shun) The generalized Roper-Suffridge extension operator for locally biholomorphic mappings. (English summary) **2004i:32031**
Tovstolis, A. V. On translation invariant operators in Hardy spaces in tube domains over open cones. (English summary) **2004k:32004**
Vidras, A. *see* **Aĭzenberg, L. A. et al., 2004f:32001**
Yin, Wei Ping (*with* Guan, Bing Xin) The Bergman kernel function on Hua domains of the fourth type. (Chinese. English and Chinese summaries) **2004b:32004**
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Zhu, Yu Can[1] Biholomorphic convex mappings on B_p^n. (Chinese. English and Chinese summaries) **2004e:32014**

32A10 Holomorphic functions

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Yin, Cheng Yuan Partial differential subordinations of second order in several complex variables. (Chinese. English and Chinese summaries)

Items with secondary classifications in 32A10

Behnam, Hazem Shaba (*with* Srivastava, G. S.) Spaces of analytic functions represented by Dirichlet series of two complex variables. (English summary) **2004g:32001**
Brudnyi, Alexander A uniqueness property for H^∞ on coverings of projective manifolds. **2004i:32009**
Budzyńska, Monika Local uniform linear convexity with respect to the Kobayashi distance. **2004c:46074**
Kopylov, Anatoliĭ Pavlovich (*with* Korobkov, Mikhail; Ponomarev, S. P.) Stability in the Cauchy and Morera theorems for holomorphic functions and their three-dimensional analogues. (Russian. Russian summary) **2004a:30020**
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Nguyen Thanh Van Analytic continuation for some classes of separately analytic functions of real variables. (English summary) **2004f:30034**
Ponomarev, S. P. *see* **Kopylov, Anatoliĭ Pavlovich et al., 2004a:30020**
Srivastava, G. S. *see* **Behnam, Hazem Shaba, 2004g:32001**

32A15 Entire functions

Armitage, D. H. The Dirichlet problem when the boundary function is entire. **2004m:32004**
Kumar, Devendra Growth of entire functions of two complex variables. (English summary) **2004g:32002**
Skaskīv, O. B. (*with* Trakalo, O. M.) A sharp estimate for the exceptional set in the Borel relation for entire functions of several variables. (Ukrainian. English and Russian summaries) **2004c:32002**
Trakalo, O. M. *see* **Skaskīv, O. B., 2004c:32002**
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Items with secondary classifications in 32A15

Burger, Marc (*with* Iozzi, Alessandra; Wienhard, Anna) Surface group representations with maximal Toledo invariant. (English and French summaries) **2004e:53076**
Iozzi, Alessandra *see* **Burger, Marc et al., 2004e:53076**
Kumar, Devendra (*with* Singh, Balbir) Fourier expansions of entire functions of two complex variables. (English summary) **2004m:32002**
Lagarias, Jeffrey C. (*with* Rains, Eric M.) On a two-variable zeta function for number fields. (English and French summaries) **2004f:11096**
Le Hai Khoi Matrix transformations of entire Dirichlet series.
Rains, Eric M. *see* **Lagarias, Jeffrey C., 2004f:11096**
Singh, Balbir *see* **Kumar, Devendra, 2004m:32002**
Wienhard, Anna *see* **Burger, Marc et al., 2004e:53076**

32A17 Special families of functions

El-Sayed Ahmed, A. *see* **Kishka, Z. M. G., 2004b:32002** *and* **2004m:32007**
Hamada, Hidetaka (*with* Kohr, Gabriela) Linear invariant families on the unit polydisc. **2004m:32006**
Kishka, Z. M. G. (*with* El-Sayed Ahmed, A.) On the effectiveness of basic sets of polynomials of several complex variables in elliptical regions. (English summary) **2004m:32007**
— (*with* El-Sayed Ahmed, A.) On the order and type of basic and composite sets of polynomials in complete Reinhardt domains. (English summary) **2004b:32002**
Kohr, Gabriela *see* **Hamada, Hidetaka, 2004m:32006**

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Abe, Yukitaka (*with* Zappa, Paolo) Universal functions on Stein manifolds. (English summary) **2004m:32046**
Joseph, James E. (*with* Kwack, Myung H.) Normal maps and hyperbolicity. (English summary) **2004m:32050**
Kwack, Myung H. *see* **Joseph, James E., 2004m:32050**
Logvinenko, Dmitri *see* **Logvinenko, Vladimir, 2004a:44003**
Logvinenko, Vladimir (*with* Logvinenko, Dmitri) On Wiegerinck's support theorem. (English summary) **2004a:44003**
Zappa, Paolo *see* **Abe, Yukitaka, 2004m:32046**

32A18 Bloch functions, normal functions

Chu, Yu Ming *see* **Zhang, Xue Jun[2], 2004a:32005**
Dovbush, P. V. Normal functions in convex domains of the space $\mathbb{C}^n$. (Russian) **2004h:32002**
— *see also* **Gavrilov, V. I., 2004i:32003**
Gavrilov, V. I. (*with* Dovbush, P. V.) Normal functions. (Russian. English summary) **2004i:32003**
Zhang, Xue Jun[2] (*with* Chu, Yu Ming) Pointwise multipliers of a generalized Bloch space on the unit polycylinder for $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **2004a:32005**

Items with secondary classifications in 32A18

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Gilbert, Robert Pertsch *see* **Chang, Der-Chen et al., 2004i:32008**
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— Boundedness of weighted composition operators on p-Bloch spaces on the unit ball of $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **2004j:47055**

32A19 Normal families of functions, mappings

Do Duc Thai (*with* Trang, Pham Nguyen Thu; Huong, Pham Dinh) Families of normal maps in several complex variables and hyperbolicity of complex spaces. (English summary) **2004c:32003**
Huong, Pham Dinh *see* **Do Duc Thai et al., 2004c:32003**
Trang, Pham Nguyen Thu *see* **Do Duc Thai et al., 2004c:32003**

Items with secondary classifications in 32A19

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Bros, Jacques A proof of Haag-Swieca's compactness property for elastic scattering states. (English summary) **2004g:81133**
Kim, Kang-Tae (*with* Krantz, Steven G.) Normal families of holomorphic functions and mappings on a Banach space. (English summary) **2004g:46059**
Krantz, Steven G. *see* **Kim, Kang-Tae, 2004g:46059**

32A20 Meromorphic functions

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Gashitsoi, N. Criterion of the existence of $\mathscr{K}$-admissible limits of holomorphic maps. (English summary) **2004d:32006**
Hu, Pei-Chu (*with* Li, Ping[1]; Yang, Chung-Chun) ★ Unicity of meromorphic mappings. **2004m:32031**
Li, Ping[1] *see* **Hu, Pei-Chu et al., 2004m:32031**
Özgür, Nihal Yılmaz (*with* Bulut, Serap) A note on the characteristic properties of Möbius transformations. (English and Serbo-Croatian summaries)
Yang, Chung-Chun *see* **Hu, Pei-Chu et al., 2004m:32031**

32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30.}

Behnam, Hazem Shaba (*with* Srivastava, G. S.) Spaces of analytic functions of finite type of two complex variables. (English summary) **2004d:32001**
Srivastava, G. S. *see* **Behnam, Hazem Shaba, 2004d:32001**
Tripathi, Devendra Dutta On the growth of a class of plurisubharmonic function in a unit disc. (Hindi. English and Hindi summaries)

Items with secondary classifications in 32A22

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Cho, Hong Rae (*with* Kwon, Ern Gun) Growth rate of the functions in Bergman type spaces. (English summary) **2004h:32005**
— Estimates on the mean growth of H^p functions in convex domains of finite type. (English summary) **2004f:32007**
Gao, Ling Yun Value distribution of differential polynomials. (English and Chinese summaries) **2004b:30047**
Jakóbczak, Piotr Exceptional sets for functions from the weighted Bergman spaces in the ball. (English summary) **2004e:32004**
Jin, Lu[1] Theorems of Picard type for entire functions of several complex variables. (English summary) **2004g:32017**
Kwon, Ern Gun *see* **Cho, Hong Rae, 2004h:32005**

32A25 Integral representations; canonical kernels (Szegő, Bergman, etc.)

Andersson, Mats E. L. Integral representation with weights. I. (English summary) **2004f:32003**
Barrett, David E. (*with* Vassiliadou, Sophia) The Bergman kernel on the intersection of two balls in $\mathbb{C}^2$. (English summary) **2004i:32004**
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Guan, Bing Xin *see* **Yin, Wei Ping, 2004b:32004**
Herbort, Gregor Localization lemmas for the Bergman metric at plurisubharmonic peak points. (English summary) **2004h:32003**
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Jeong, Moonja (*with* Taniguchi, Masahiko) Algebraic kernel functions and representation of planar domains. (English summary) **2004c:32006**
Kasparian, Azniv K. Compressed product of balls and lower boundary estimates on Bergman kernels. (English summary) **2004c:32007**
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Nikolov, Nikolai Marinov (*with* Pflug, Peter) Estimates for the Bergman kernel and metric of convex domains in $\mathbb{C}^n$. (English summary) **2004b:32003**
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Qiu, Chun Hui Weighted homotopy formulas on a local q-convex wedge in a complex manifold. (Chinese. English and Chinese summaries) **2004j:32001**
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Yakshina, A. S. On the differential properties of integrals of Temlyakov and Temlyakov-Bavrin types. (Russian. Russian summary) **2004k:32001**
Yin, Wei Ping (*with* Guan, Bing Xin) The Bergman kernel function on Hua domains of the fourth type. (Chinese. English and Chinese summaries) **2004b:32004**
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Zhao, Xiao Xia *see* **Yin, Wei Ping, 2004b:32005**

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Anikonov, Yu. E. Representation of functions of many complex variables and inverse problems for kinetic equations. (English summary) **2004j:35288**
Begehr, Heinrich G. W. Representations in polydomains. **2004d:32004**
Békollé, David (*with* Bonami, Aline) Analysis on tube domains over light cones: some extensions of recent results. (English summary) **2004a:32002**
Berndtsson, B. Bergman kernels related to Hermitian line bundles over compact complex manifolds. **2004m:58045**
Bonami, Aline *see* **Békollé, David, 2004a:32002**
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Chen, Bo Yong The Bergman metric on complete Kähler manifolds. (English summary) **2004h:32023**
Constales, D. (*with* Kraußhar, Rolf Sören) Bergman kernels for rectangular domains and multiperiodic functions in Clifford analysis. (English summary) **2004i:30047**
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Govekar-Leban, Darja A Morera theorem for the boundary values of holomorphic functions in the unit ball in $\mathbf{C}^N$. **2004e:32005**
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Kytmanov, A. M. (*with* Myslivets, S. G.) On the construction of exact complexes associated with the Dolbeault complex. (Russian. Russian summary) **2004g:58024**
Myslivets, S. G. *see* **Kytmanov, A. M., 2004g:58024**
Nikolov, Nikolai Marinov The completeness of the Bergman distance of planar domains has a local character. (English summary) **2004f:32012**
Pflug, Peter (*with* Zwonek, Włodzimierz) Logarithmic capacity and Bergman functions. (English summary) **2004m:30012**
Ricard, Hélène Estimations $\mathscr{C}^k$ pour l'opérateur de Cauchy-Riemann sur des domaines à coins q-convexes et q-concaves. [$\mathscr{C}^k$-estimates for the Cauchy-Riemann operator on q-convex and q-concave domains with corners] **2004f:32053**
Sastry, Pramathanath (*with* Tong, Yue Lin L.) The Grothendieck trace and the de Rham integral. (English summary) **2004e:32008**
Tie, Jingzhi *see* **Chang, Der-Chen et al., 2004i:32008**
Tong, Yue Lin L. *see* **Sastry, Pramathanath, 2004c:32008**
Zwonek, Włodzimierz *see* **Pflug, Peter, 2004m:30012**

32A26 Integral representations, constructed kernels (e.g. Cauchy, Fantappiè-type kernels)

Adachi, Kenzō Integral formula and its applications to the $\overline{\partial}$ problem and the extension problem. (English summary) **2004m:32008**
Anderson, John T. (*with* Wermer, John) A Cauchy-Green formula on the unit sphere in C^2. (English summary) **2004f:32004**
Begehr, Heinrich G. W. Representations in polydomains. **2004d:32004**
Chen, Lu Ping[2] A transformation formula for singular integrals with extensional Bochner-Martinelli kernel on a closed smooth manifold. (Chinese. English and Chinese summaries)
Hatziafratis, Telemachos A formula for the derivatives of holomorphic functions in $\mathbb{C}^2$ in terms of certain integrals taken on boundaries of analytic varieties. (English summary) **2004i:32006**
— Expansions of certain del bar closed forms via Fourier-Laplace transform. (English summary) **2004e:32003**
Huang, Hong Yi (*with* Zhong, Chun Ping) A generalization of the Leray-Norguet formula for functions on Stein manifolds. (Chinese. English and Chinese summaries) **2004j:32002**
— *see also* **Zhong, Chun Ping et al., 2004a:32008**
Huang, Yu Sheng (*with* Lin, Liang Yu) The Cauchy formula with discrete kernel and $\overline{\partial}$-equation on a bounded domain. (Chinese. English and Chinese summaries)
Joiţa, Cezar (*with* Lárusson, Finnur) The third Cauchy-Fantappiè formula of Leray. **2004f:32005**
Karapetyan, A. O. Weighted $\overline{\partial}$-integral representations of C^1-functions in $\mathbb{C}^n$. (Russian. Armenian summary)
— Weighted $\overline{\partial}$-integral representations in the matrix disk. (Russian. Armenian summary)
Kytmanov, A. A. On an analogue of the Fubini-Study form for two-dimensional toric manifolds. (Russian. Russian summary) **2004f:32006**
Lárusson, Finnur *see* **Joiţa, Cezar, 2004f:32005**
Lin, Liang Yu *see* **Huang, Yu Sheng**
Ma, Zhong Tai (*with* Zhang, Qi Quan) Boundary properties of Bochner-Martinelli type integrals. (Chinese. English and Chinese summaries) **2004c:32008**
Mohammed, Alip The Riemann-Hilbert-Poincaré problem for holomorphic functions in polydiscs. (English summary) (*see* **2004i:00014**)
Qiu, Chun Hui *see* **Yao, Zong Yuan et al., 2004b:32007**
Shaimkulov, B. A. The integral Cauchy-Weil representation for matrix functions. (Russian) **2004b:32006**
Wermer, John *see* **Anderson, John T., 2004f:32004**
Xu, Zhong Yi An integral representation on a bounded domain in the space $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **2004k:32002**
Yao, Zong Yuan (*with* Qiu, Chun Hui; Zhong, Chun Ping) A new Leray formula for smooth functions on bounded domains in $\mathbf{C}^n$. (English summary) **2004b:32007**
— *see also* **Zhong, Chun Ping et al., 2004a:32008**
Zhang, Qi Quan *see* **Ma, Zhong Tai, 2004c:32008**
Zhong, Chun Ping (*with* Huang, Hong Yi; Yao, Zong Yuan) Extension forms of Cauchy-Leray formula and Cauchy-Fantappiè formula in $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **2004a:32008**
— *see also* **Yao, Zong Yuan et al., 2004b:32007** *and* **Huang, Hong Yi, 2004j:32002**

Items with secondary classifications in 32A26

Adachi, Kenzō L^p-extension of holomorphic functions from submanifolds to strictly pseudoconvex domains with non-smooth boundary. (English summary) **2004k:32013**
Ahn, Heungju L^p estimates with weights for the $\overline{\partial}$-equation on real ellipsoids in $\mathbb{C}^n$. (English summary) **2004b:32062**
— (*with* Cho, Hong Rae) Optimal Sobolev estimates for $\overline{\partial}$ on convex domains of finite type. (English summary) **2004g:32034**
Andersson, Mats E. L. (*with* Sandberg, Sebastian) The essential spectrum of holomorphic Toeplitz operators on H^p spaces. (English summary) **2004b:47048**
Cho, Hong Rae Estimates on the mean growth of H^p functions in convex domains of finite type. (English summary) **2004f:32007**
— *see also* **Ahn, Heungju, 2004g:32034**
Fujita, Keiko *see* **Morimoto, Mitsuo, (2004k:00017)**
Hefer, Torsten Hölder and L^p estimates for $\overline{\partial}$ on convex domains of finite type depending on Catlin's multitype. **2004e:32041**
Lampert, Christoph H. ★ Der Neumannoperator in streng pseudokonvexen Gebieten mit gewichteter Bergmanmetrik. (German) [The Neumann operator in strongly pseudoconvex domains with weighted Bergman metrics] **2004i:32061**
Mazzilli, Emmanuel Formules de division dans $\mathbb{C}^n$. [Division formulas in $\mathbb{C}^n$] **2004j:32007**
Morimoto, Mitsuo (*with* Fujita, Keiko) Holomorphic functions on the Lie ball and related topics. (*see* **2004k:00017**)
Sandberg, Sebastian *see* **Andersson, Mats E. L., 2004b:47048**

32A27 Local theory of residues [see also 32C30]

Nakamura, Yayoi (*with* Tajima, Shinichi) An algorithm for the local residues with the viewpoint of $\mathscr{D}$-module. (English summary) **2004c:32009**
Soares, Márcio Gomes ★ Lectures on point residues. **2004m:32009**
Tajima, Shinichi *see* **Nakamura, Yayoi, 2004c:32009**

Items with secondary classifications in 32A27

Izawa, Takeshi (*with* Suwa, Tatsuo) Multiplicity of functions of singular varieties. (English summary) **2004f:14009**
Mazzilli, Emmanuel Formules de division dans $\mathbb{C}^n$. [Division formulas in $\mathbb{C}^n$] **2004j:32007**
Suwa, Tatsuo Residues of Chern classes. (English summary) **2004e:14013**
— *see also* **Izawa, Takeshi, 2004f:14009**
Tajima, Shinichi Algebraic analysis of multivariate Hermite interpolation formulas. **2004c:32021**

32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}

MacCluer, Barbara D. (*with* Stroethoff, Karel; Zhao, Ruhan) Schwarz-Pick type estimates. (English summary) **2004g:32003**
Stroethoff, Karel *see* **MacCluer, Barbara D. et al., 2004g:32003**
Yin, Cheng Yuan The best dominant of partial differential subordinates in several complex variables. (Chinese. English and Chinese summaries) **2004g:32004**
Zhao, Ruhan *see* **MacCluer, Barbara D. et al., 2004g:32003**

Items with secondary classifications in 32A30

Agler, J. (*with* Yeh, Fang Bo; Young, Nicholas J.) Realization of functions into the symmetrised bidisc. (English summary) **2004k:47018**
Ball, Joseph A. (*with* Bolotnikov, Vladimir) A bitangential interpolation problem on the closed unit ball for multipliers of the Arveson space. (English summary) **2004c:47033**
Bolotnikov, Vladimir *see* **Ball, Joseph A., 2004c:47033**
Curt, Paula On coefficients of starlike and convex mappings in several variables. (English summary) **2004g:32013**
Gong, Sheng (*with* Liu, Tai Shun) On the Roper-Suffridge extension operator. (English summary) **2004d:32016**
— *see also* **Liu, Tai Shun, 2004k:32023**
Królikowski, Wiesław Z. A Clifford-type structure. (English summary) **2004f:30036**
Li, Bao Qin (*with* Saleeby, Elias G.) Entire solutions of first-order partial differential equations. (English summary) **2004f:32055**
Liu, Hao[1] (*with* Lu, Ke Ping) A new characterization for starlike mappings on bounded balanced pseudoconvex domains. (Chinese. English and Chinese summaries) **2004c:32032**

— (*with* Lu, Ke Ping) Decomposition theorem of complete quasiconvex mappings in $\mathbb{C}^n$. (Chinese. English and Chinese summaries) **2004m:32028**
Liu, Tai Shun (*with* Gong, Sheng) The family of ε starlike mappings. II. (Chinese. English and Chinese summaries) **2004k:32023**
— *see also* **Gong, Sheng**, **2004d:32016**
Lu, Ke Ping *see* **Liu, Hao[1]**, **2004c:32032** *and* **2004m:32028**
Saleeby, Elias G. *see* **Li, Bao Qin**, **2004f:32055**
Skaskīv, O. B. (*with* Trakalo, O. M.) A sharp estimate for the exceptional set in the Borel relation for entire functions of several variables. (Ukrainian. English and Russian summaries) **2004c:32002**
Trakalo, O. M. *see* **Skaskīv, O. B.**, **2004c:32002**
Yeh, Fang Bo *see* **Agler, J. et al.**, **2004k:47018**
Yin, Cheng Yuan Partial differential subordinations of second order in several complex variables. (Chinese. English and Chinese summaries)
Young, Nicholas J. *see* **Agler, J. et al.**, **2004k:47018**

32A35 H^p-spaces, Nevanlinna spaces [see also 32M15, 42B30, 43A85, 46J15]

Amar, Éric On the Toëplitz corona problem. (English summary) **2004h:32004**
Cho, Hong Rae Estimates on the mean growth of H^p functions in convex domains of finite type. (English summary) **2004f:32007**
Dubtsov, E. S. Weakly outer inner functions. (Russian. Russian summary) **2004d:32005**
Imai, Ryuta Characterizations of Hardy-Orlicz spaces on strictly pseudoconvex domains of $\mathbf{C}^n$. (English summary) **2004i:32007**
Kähler, Uwe *see* **Ren, Guangbin**, **2004f:32008**
Nakazi, Takahiko Exposed points and extremal problems in H^1 on a bidisc. (English summary) **2004k:32003**
Ren, Guangbin (*with* Kähler, Uwe) Radial derivative on bounded symmetric domains. (English summary) **2004f:32008**
Tovstolis, A. V. On translation invariant operators in Hardy spaces in tube domains over open cones. (English summary) **2004k:32004**

Items with secondary classifications in 32A35

Alpay, Daniel (*with* Putinar, Mihai; Vinnikov, Victor) A Hilbert space approach to bounded analytic extension in the ball. (English summary) **2004b:47013**
— (*with* Dubi, C.) Backward shift operator and finite dimensional de Branges Rovnyak spaces in the ball. (English summary) **2004e:46035**
Andersson, Mats E. L. (*with* Sandberg, Sebastian) The essential spectrum of holomorphic Toeplitz operators on H^p spaces. (English summary) **2004b:47048**
Beneker, Paul (*with* Wiegerinck, Jan) The boundary of the unit ball in H^1-type spaces. (English summary) **2004g:46035**
Boussejra, Abdelhamid L^2-Poisson integral representations of solutions of the Hua system on the bounded symmetric domain $\mathrm{SU}(n,n)/\mathrm{S}(\mathrm{U}(n)\times\mathrm{U}(n))$. (English summary) **2004g:43009**
Chang, Der-Chen (*with* Gilbert, Robert Pertsch; Tie, Jingzhi) Bergman projection and weighted holomorphic functions. (English summary) **2004i:32008**
— (*with* Stević, Stevo) Estimates of an integral operator on function spaces. (English summary) **2004k:47061**
Cho, Hong Rae (*with* Kwon, Ern Gun) Growth rate of the functions in Bergman type spaces. (English summary) **2004h:32005**
Domański, Paweł (*with* Langenbruch, Michael) Composition operators on spaces of real analytic functions. (English summary) **2004c:46036**
Dubi, C. *see* **Alpay, Daniel**, **2004e:46035**
Dubtsov, E. S. Weakly cyclic vectors with a given modulus. (Russian. English and Russian summaries) **2004m:32010**
Gilbert, Robert Pertsch *see* **Chang, Der-Chen et al.**, **2004i:32008**
Halanay, Andrei Weak*-embedding l^∞ into $H^\infty(\mathbb{D}^2)$: an example. (English summary) **2004f:46060**
Imai, Ryuta Toeplitz type operators on the Hardy-Orlicz space. (English summary) **2004b:47053**
— The corona type decomposition of Hardy-Orlicz spaces. (English summary) **2004c:42042**
Kwon, Ern Gun *see* **Cho, Hong Rae**, **2004h:32005**
Langenbruch, Michael *see* **Domański, Paweł**, **2004c:46036**
Michalak, Artur (*with* Nawrocki, Marek) Banach envelopes of vector valued H^p spaces. (English summary) **2004h:46034**
Nawrocki, Marek *see* **Michalak, Artur**, **2004h:46034**
Putinar, Mihai *see* **Alpay, Daniel et al.**, **2004b:47013**
Rehberg, Bettina Hankel operators on generalized Bergman-Hardy spaces. (English summary) **2004h:47044**
Sandberg, Sebastian Property $(\beta)_\varepsilon$ for Toeplitz operators with H^∞-symbol. (English summary) **2004e:47041**
— *see also* **Andersson, Mats E. L.**, **2004b:47048**
Shamoyan, R. F. Lizorkin-Triebel-type spaces of functions holomorphic in the polydisk. (Russian. English and Russian summaries) **2004b:32009**
Stević, Stevo Hilbert operator on the polydisk. (English summary) **2004h:47052**
— *see also* **Chang, Der-Chen**, **2004k:47061**
Tie, Jingzhi *see* **Chang, Der-Chen et al.**, **2004i:32008**
Vinnikov, Victor *see* **Alpay, Daniel et al.**, **2004b:47013**
Wiegerinck, Jan *see* **Beneker, Paul**, **2004g:46035**

32A36 Bergman spaces

Bonami, Aline Three related problems of Bergman spaces of tube domains over symmetric cones. (English summary) **2004k:32005**
Chang, Der-Chen (*with* Gilbert, Robert Pertsch; Tie, Jingzhi) Bergman projection and weighted holomorphic functions. (English summary) **2004i:32008**
Chen, Bo Yong A remark on an extension theorem of Ohsawa. (Chinese. English and Chinese summaries) **2004b:32008**
Cho, Hong Rae (*with* Kwon, Ern Gun) Growth rate of the functions in Bergman type spaces. (English summary) **2004h:32005**
Gilbert, Robert Pertsch *see* **Chang, Der-Chen et al.**, **2004i:32008**
Jakóbczak, Piotr Exceptional sets for functions from the weighted Bergman spaces in the ball. (English summary) **2004e:32004**
Kwon, Ern Gun *see* **Cho, Hong Rae**, **2004h:32005**
Marco, Nicolas (*with* Massaneda, Xavier) On density conditions for interpolation in the ball. (English summary) **2004j:32003**
Massaneda, Xavier *see* **Marco, Nicolas**, **2004j:32003**
Tie, Jingzhi *see* **Chang, Der-Chen et al.**, **2004i:32008**

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Amar, Éric On the Toëplitz corona problem. (English summary) **2004h:32004**
Arcozzi, Nicola (*with* Björn, Anders) Dominating sets for analytic and harmonic functions and completeness of weighted Bergman spaces. (English summary) **2004b:46028**
Arutyunyan, A. V. Boundedness of Toeplitz operators and division theorems in spaces $H^p(\omega)$. (English summary) **2004h:47039**
Békollé, David (*with* Bonami, Aline) Analysis on tube domains over light cones: some extensions of recent results. (English summary) **2004a:32002**
— (*with* Gonessa, Jocelyn; Nana, Cyrille) Complex interpolation between two weighted Bergman spaces on tubes over symmetric cones. (English and French summaries) **2004f:46088**
Björn, Anders *see* **Arcozzi, Nicola**, **2004b:46028**
Bonami, Aline *see* **Békollé, David**, **2004a:32002**
Chang, Der-Chen (*with* Stević, Stevo) Estimates of an integral operator on function spaces. (English summary) **2004k:47061**
Cho, Hong Rae (*with* Lee, Jinkee) On boundedness of the weighted Bergman projections on the Lipschitz spaces. (English summary) **2004d:32002**
Choe, Boo Rim (*with* Koo, Hyungwoon; Lee, Young Joo) Commuting Toeplitz operators on the polydisk. (English summary) **2004k:47054**
Dubtsov, E. S. Bounded cyclic functions in the ball. (Russian. English and Russian summaries) **2004k:32006**
Gao, Jin Shou (*with* Jia, Hou Yu) Characterizations of the compactness of operators on Bergman spaces. (Chinese. English and Chinese summaries) **2004m:47048**
Gonessa, Jocelyn *see* **Békollé, David et al.**, **2004f:46088**
Grudskīĭ, Sergeĭ M. (*with* Karapetyants, A.; Vasilevskīĭ, N. L.) Toeplitz operators on the unit ball in $\mathbb{C}^n$ with radial symbols. (English summary) **2004f:47032**
Guo, Kun Yu The codimension formula on AF-cosubmodules. (English summary) **2004f:47011**
Herbort, Gregor Localization lemmas for the Bergman metric at plurisubharmonic peak points. (English summary) **2004h:32003**
Hu, Zhangjian Extended Cesáro operators on the Bloch space in the unit ball of $\mathbf{C}^n$. (English summary) **2004k:47064**
Jarchow, Hans (*with* Kollbrunner, Urs) Carleson embeddings for weighted Bergman spaces. (English summary) **2004j:46032**
Jasiczak, M. On locally convex extension of H^∞ in the unit ball and continuity of the Bergman projection. (English summary) **2004c:32005**
Jia, Hou Yu *see* **Gao, Jin Shou**, **2004m:47048**
Karapetyants, A. *see* **Grudskīĭ, Sergeĭ M. et al.**, **2004f:47032**
Kollbrunner, Urs *see* **Jarchow, Hans**, **2004j:46032**
Koo, Hyungwoon *see* **Choe, Boo Rim et al.**, **2004k:47054**
Lee, Jinkee *see* **Cho, Hong Rae**, **2004d:32002**
Lee, Young Joo *see* **Choe, Boo Rim et al.**, **2004k:47054**
Luo, Luo (*with* Shi, Ji Huai) Composition operators between Bergman spaces on bounded strongly pseudoconvex domains of $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **2004j:47052**
Miao, Jie Hankel operators on harmonic Bergman spaces of the unit ball. (English summary) **2004d:47061**
Nana, Cyrille *see* **Békollé, David et al.**, **2004f:46088**
Ohsawa, Takeo On the extension of L^2 holomorphic functions. VI. A limiting case. **2004j:32012**
Rehberg, Bettina Hankel operators on generalized Bergman-Hardy spaces. (English summary) **2004h:47044**
Shi, Ji Huai *see* **Luo, Luo**, **2004j:47052**
Stević, Stevo *see* **Chang, Der-Chen**, **2004k:47061**
Vasilevskīĭ, N. L. *see* **Grudskīĭ, Sergeĭ M. et al.**, **2004f:47032**

32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA)) [see also 46Exx]

Chen, Ze Qian Characterizations of Arveson's Hardy space. (English summary) **2004c:32010**
Dubtsov, E. S. Bounded cyclic functions in the ball. (Russian. English and Russian summaries) **2004k:32006**
— Weakly cyclic vectors with a given modulus. (Russian. English and Russian summaries) **2004m:32010**
Hu, Peng Yan (*with* Zhang, Wen Jun[1]) Dirichlet and $Q_{p,0}$ spaces on the unit ball of $\mathbf{C}^n$. (English summary) **2004g:32005**
Jovanović, Ivan Č. Multipliers from $H^1(U)$ into $\mathrm{BMOA}(B)$. (English summary) **2004m:32011**
Li, Bo[6] (*with* Ouyang, Caiheng) Higher radial derivative of Bloch type functions. (English summary) **2004c:32011**
Matsugu, Yasuo (*with* Ueki, Sei-Ichiro) Algebra homomorphisms on the Privalov spaces in the unit ball B_n. (English summary) **2004k:32007**
Ouyang, Caiheng *see* **Li, Bo[6]**, **2004c:32011**
Shamoyan, F. A. Embedding theorems for weighted anisotropic spaces of functions holomorphic in the polydisk. (Russian. English, Russian and Ukrainian summaries) **2004g:32006**

Shamoyan, R. F. Lizorkin-Triebel-type spaces of functions holomorphic in the polydisk. (Russian. English and Russian summaries) **2004b:32009**
Ueki, Sei-Ichiro *see* **Matsugu, Yasuo, 2004k:32007**
Zhang, Wen Jun[1] *see* **Hu, Peng Yan, 2004g:32005**
Zhang, Xue Jun[2] The coefficient multiplier between the p-Bloch space $\beta^p(B)$ and the Dirichlet type space $D_q(B)$ of $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **2004c:32012**
— The pointwise multipliers of Bloch type space β^p and Dirichlet type space D_q on the unit ball of $\mathbf{C}^n$. (English summary) **2004f:32009**

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Alpay, Daniel (*with* Dijksma, Aad; Rovnyak, James) A theorem of Beurling-Lax type for Hilbert spaces of functions analytic in the unit ball. (English summary) **2004j:46034**
Carswell, Brent J. (*with* MacCluer, Barbara D.; Schuster, Alex) Composition operators on the Fock space. (English summary) **2004k:47048**
Chen, Huaihui Boundedness from below of composition operators on the Bloch spaces. (English summary) **2004i:47046**
Cho, Hong Rae (*with* Kwon, Ern Gun) Sobolev-type embedding theorems for harmonic and holomorphic Sobolev spaces. (English summary) **2004g:46049**
Choi, Ki Seong Little Hankel operators on weighted Bloch spaces in $\mathbb{C}^n$. (English summary) **2004i:47051**
Chu, Yu Ming *see* **Zhang, Xue Jun[2], 2004a:32005**
Dijksma, Aad *see* **Alpay, Daniel et al., 2004j:46034**
Gavrilov, V. I. (*with* Subbotin, A. V.) F-algebras of holomorphic functions in the ball that contain the Nevanlinna class. (Russian. English summary) **2004h:32006**
Hornor, William E. Semigroups of holomorphic self-maps of domains and one-parameter semigroups of isometries of Bergman spaces. **2004g:47031**
Hu, Peng Yan (*with* Zhang, Wen Jun[1]) Hankel and multiplication operators on Dirichlet type spaces on the unit ball of $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **2004j:47060**
Hu, Zhangjian Extended Cesáro operators on the Bloch space in the unit ball of $\mathbf{C}^n$. (English summary) **2004k:47064**
— Extended Cesàro operators on mixed norm spaces. (English summary) **2004a:47030**
Jakóbczak, Piotr Exceptional sets for functions from the weighted Bergman spaces in the ball. (English summary) **2004e:32004**
Kwon, Ern Gun *see* **Cho, Hong Rae, 2004g:46049**
Liu, Hua *see* **Shi, Ji Huai, 2004j:31012**
MacCluer, Barbara D. *see* **Carswell, Brent J. et al., 2004k:47048**
Rovnyak, James *see* **Alpay, Daniel et al., 2004j:46034**
Schuster, Alex *see* **Carswell, Brent J. et al., 2004k:47048**
Shan, Lin Reducing subspaces for a class of analytic Toeplitz operators on the bidisc. (Chinese. English and Chinese summaries) **2004d:47063**
Shi, Ji Huai (*with* Liu, Hua) On the Carleson measure characterization of M-harmonic BMO functions in the unit ball of $\mathbb{R}^n$. (Chinese. English and Chinese summaries) **2004j:31012**
— *see also* **Zhou, Ze Hua, 2004d:47059**
Subbotin, A. V. *see* **Gavrilov, V. I., 2004h:32006**
Trutnev, V. M. Density of polynomial elements in invariant subspaces of spaces of entire functions of exponential type. (Russian. Russian summary) **2004m:32005**
Wang, James L. (*with* Wu, Zhi Jian[1]) Multipliers between BMO spaces on open unit ball. (English summary) **2004c:47071**
Wu, Zhi Jian[1] *see* **Wang, James L., 2004c:47071**
Zhang, Wen Jun[1] *see* **Hu, Peng Yan, 2004j:47060**
Zhang, Xue Jun[2] (*with* Chu, Yu Ming) Pointwise multipliers of a generalized Bloch space on the unit polycylinder for $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **2004a:32005**
Zhou, Ze Hua (*with* Shi, Ji Huai) The essential norm of a composition operator on the Bloch space in polydiscs. (Chinese. English and Chinese summaries) **2004d:47059**

32A38 Algebras of holomorphic functions [see also 30H05, 46J10, 46J15]

Brudnyi, Alexander A uniqueness property for H^∞ on coverings of projective manifolds. **2004i:32009**
Gavrilov, V. I. (*with* Subbotin, A. V.) F-algebras of holomorphic functions in the ball that contain the Nevanlinna class. (Russian. English summary) **2004h:32006**
Hu, Zhangjian The Gleason's problem on mixed norm spaces in convex domains. (English summary) **2004j:32004**
Kot, Piotr The Gleason problem for $\mathbb{A}^k(\Omega)$, $\mathbb{H}^k(\Omega)$, $\mathrm{Lip}_{k+\varepsilon}(\Omega)$. (English summary) **2004a:32009**
Subbotin, A. V. *see* **Gavrilov, V. I., 2004h:32006**

Items with secondary classifications in 32A38

Abanin, A. V. (*with* Shabarshina, I. S.) Characterization of generating ideals in some rings of entire functions. (Russian. Russian summary) **2004i:46080**
Barrenechea, A. L. (*with* Peña, Carlos C.) On Hadamard-Dirichlet algebras. (English summary) **2004g:46069**
Marco, Nicolas (*with* Massaneda, Xavier) On density conditions for interpolation in the ball. (English summary) **2004j:32003**
Massaneda, Xavier *see* **Marco, Nicolas, 2004j:32003**
Peña, Carlos C. *see* **Barrenechea, A. L., 2004g:46069**
Puzir'ova, Ī. Symmetric analytic functions in L_p. (Ukrainian. English, Russian and Ukrainian summaries) **2004c:46097**
Shabarshina, I. S. *see* **Abanin, A. V., 2004i:46080**

32A40 Boundary behavior of holomorphic functions

Berenstein, Carlos A. (*with* Chang, Der-Chen; Eby, Wayne M.; Zalcman, Lawrence) Moment versions of the Morera problem in $\mathbf{C}^n$ and $\mathbf{H}^n$. (English summary) **2004g:32007**
Chang, Der-Chen *see* **Berenstein, Carlos A. et al., 2004g:32007**
Dzebisov, Khadzhumar Petrovich Interior and exterior one-sided homogeneous boundary value problems of conjugation for bicircular domains of the space $\mathbb{C}^2$. (Russian. Russian summary)
— Riemann-type boundary value problems for bicircular domains with a boundary condition containing a partial derivative. (Russian. Russian summary) **2004j:32005**
Eby, Wayne M. *see* **Berenstein, Carlos A. et al., 2004g:32007**
Gashitsoi, N. Criterion of the existence of $\mathscr{K}$-admissible limits of holomorphic maps. (English summary) **2004d:32006**
Godula, Janusz (*with* Starkov, Viktor V.) On the boundary behaviour of functions of several complex variables. (English summary) **2004h:32007**
Govekar-Leban, Darja A Morera theorem for the boundary values of holomorphic functions in the unit ball in $\mathbf{C}^N$. **2004e:32005**
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32A45 Hyperfunctions [see also 46F15]

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32A50 Harmonic analysis of several complex variables [See mainly 43–XX]

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32A55 Singular integrals

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32A60 Zero sets of holomorphic functions

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32A65 Banach algebra techniques [See mainly 46Jxx]

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32A70 Functional analysis techniques [See mainly 46Exx]

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32Bxx Local analytic geometry [see also 13–XX and 14–XX]

32B05 Analytic algebras and generalizations, preparation theorems

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32B10 Germs of analytic sets, local parametrization

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32B15 Analytic subsets of affine space

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32B20 Semi-analytic sets and subanalytic sets [see also 14P15]

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Pawlucki, Wiesław A decomposition of a set definable in an o-minimal structure into perfectly situated sets. (English summary) **2004a:14063**
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32Cxx Analytic spaces

32C05 Real-analytic manifolds, real-analytic spaces [see also 14Pxx, 58A07]

Guaraldo, Francesco On real analytic fibre bundles: classification theorems. (English summary) **2004c:32013**

Items with secondary classifications in 32C05

Andradas, Carlos (*with* Díaz-Cano, Antonio; Ruiz, Jesús M.) The Artin-Lang property for normal real analytic surfaces. (English summary) **2004f:14086**
Díaz-Cano, Antonio *see* **Andradas, Carlos et al., 2004f:14086**
Ezhov, Vladimir V. (*with* Schmalz, Gerd) Linearization of isotropic automorphisms of non-quadratic elliptic CR-manifolds in $\mathbb{C}^4$. **2004i:32059**
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32C07 Real-analytic sets, complex Nash functions [see also 14P15, 14P20]

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32C09 Embedding of real analytic manifolds

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32C11 Complex supergeometry [see also 14A22, 14M30, 58A50]

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32C15 Complex spaces

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32C18 Topology of analytic spaces

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Briançon, Joël (*with* Granger, Michel) Sur la connexité en géométrie analytique complexe locale. (English and French summaries) [Connectedness in local complex analytic geometry] **2004h:32009**
Granger, Michel *see* **Briançon, Joël, 2004h:32009**

32C20 Normal analytic spaces

Items with secondary classifications in 32C20

Jiménez Meana, Jorge Differential operators in analytic spaces. (Spanish. Spanish summary) **2004b:32067**

32C22 Embedding of analytic spaces

Camacho, César (*with* Movasati, Hossein) ★ Neighborhoods of analytic varieties. **2004j:32008**
Movasati, Hossein *see* **Camacho, César, 2004j:32008**

32C25 Analytic subsets and submanifolds

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Meise, Reinhold *see* **Braun, Rüdiger W. et al., 2004k:32010**
Taylor, B. A. *see* **Braun, Rüdiger W. et al., 2004k:32010**

32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27.}

Ancona, Vincenzo (*with* Gaveau, Bernard) Differential forms, cycles and Hodge theory on complex analytic spaces. (English summary) **2004c:32015**
Asserda, Said (*with* Kassi, M'hamed) Courants de type Liouville pour les applications holomorphes. (English and French summaries) [Liouville-type currents for holomorphic maps] **2004a:32015**
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Gaveau, Bernard *see* **Ancona, Vincenzo, 2004c:32015**
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Maire, H.-M. *see* **Barlet, Daniel, 2004d:32007**
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Sturm, Jacob *see* **Phong, D. H., 2004b:32011**
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Bassanelli, Giovanni *see* **Alessandrini, Lucia, 2004f:32046**
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Roslyĭ, A. A. *see* **Khesin, Boris A., 2004k:14029**

32C35 Analytic sheaves and cohomology groups [see also 14Fxx, 18F20, 55N30]

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Erat, Matjaž The cohomology of Banach space bundles over 1-convex manifolds is not always Hausdorff. (English summary) **2004a:32016**
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Vâjâitu, Viorel *see* **Tomassini, Giuseppe, 2004b:32012**

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Brinkschulte, Judith (*with* Hill, C. Denson; Nacinovich, Mauro) Remarks on weakly pseudoconvex boundaries. (English summary) **2004h:32038**
Eastwood, Michael G. *see* **Bailey, Toby N. et al., 2004e:32022**
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Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 2004h:32010**
Nacinovich, Mauro *see* **Brinkschulte, Judith et al., 2004h:32038**

32C36 Local cohomology of analytic spaces

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Items with secondary classifications in 32C36

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Hill, C. Denson *see* **Brinkschulte, Judith et al., 2004h:32038**
Kaddar, M. *see* **Barlet, Daniel, 2004c:32025**
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32C37 Duality theorems

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Leiterer, Jürgen *see* **Laurent-Thiébaut, Christine, 2004h:32010**
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Tong, Yue Lin L. *see* **Sastry, Pramathanath, 2004e:32008**

Items with secondary classifications in 32C37

Kosarew, Siegmund Geometric and categorical nonabelian duality in complex geometry. (English summary) **2004k:14026**

32C38 Sheaves of differential operators and their modules, D-modules [see also 14F10, 16S32, 35A27, 58J15]

Briançon, Joël (*with* Maisonobe, Ph.; Merle, M.) Éventails associés à des fonctions analytiques. (Russian summary) [Fans associated with analytic functions] **2004b:32013**
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Calderón-Moreno, F. (*with* Narváez Macarro, Luis) Locally quasi-homogeneous free divisors are Koszul free. (English summary) **2004c:32016**
Castro-Jiménez, Francisco Jesús (*with* Ucha Enríquez, José María) Free divisors and duality for $\mathscr{D}$-modules. (English summary) **2004a:32017**

— (*with* Takayama, Nobuki) Singularities of the hypergeometric system associated with a monomial curve. (English summary) **2004j:32009**
Chemla, Sophie An inverse image functor for Lie algebroids. (English summary) **2004h:32011**
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Eastwood, Michael G. *see* **D'Agnolo, Andrea**, **2004i:32013**
Kashiwara, Masaki (*with* Schapira, Pierre) Microlocal study of ind-sheaves. I. Microsupport and regularity. (English and French summaries) **2004k:32011**
— (*with* Monteiro Fernandes, Térésa; Schapira, Pierre) Involutivity of truncated microsupports. (English and French summaries) **2004c:32017**
Laurent, Yves Regularity of $\mathscr{D}$-modules associated to a symmetric pair. (English and French summaries) **2004k:32012**
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Merle, M. *see* **Briançon, Joël et al.**, **2004b:32013** *and* **2004b:32014**
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Schapira, Pierre *see* **Kashiwara, Masaki et al.**, **2004c:32017** *and* **2004k:32011**
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— (*with* Ucha Enríquez, José María) Quasi-free divisors and duality. (English and French summaries) **2004m:14027**
Coutinho, S. C. Indecomposable non-holonomic $\mathscr{D}$-modules in dimension 2. (English summary) **2004k:16068**
Malgrange, Bernard Differential algebra and differential geometry. **2004c:12007**
Marastoni, Corrado (*with* Tanisaki, Toshiyuki) Radon transforms for quasi-equivariant $\mathscr{D}$-modules on generalized flag manifolds. (English summary) **2004c:32045**
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Nakamura, Yayoi (*with* Tajima, Shinichi) An algorithm for the local residues with the viewpoint of $\mathscr{D}$-module. (English summary) **2004c:32009**
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32C99 None of the above, but in this section

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Camacho, César (*with* Movasati, Hossein) ★ Neighborhoods of analytic varieties. **2004j:32008**
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32Dxx Analytic continuation

32D10 Envelopes of holomorphy

Items with secondary classifications in 32D10

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Merker, Joël On envelopes of holomorphy of domains covered by Levi-flat hats and the reflection principle. (English and French summaries) **2004c:32071**
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— (*with* Nguyên Viêt Anh) Extension theorems of Sakai type for separately holomorphic and meromorphic functions. (English summary) **2004m:32018**
— *see also* **Jarnicki, Marek**, **2004i:32014**

32D15 Continuation of analytic objects

Adachi, Kenzô L^p-extension of holomorphic functions from submanifolds to strictly pseudoconvex domains with non-smooth boundary. (English summary) **2004k:32013**
Amal, Hichame A Hartogs-type theorem for separately holomorphic mappings. (English summary) **2004j:32010**
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Edigarian, Armen (*with* Wiegerinck, Jan) Graphs that are not complete pluripolar. (English summary) **2004b:30005**
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Laurent-Thiébaut, Christine (*with* Porten, Egmont) Analytic extension from non-pseudoconvex boundaries and $A(D)$-convexity. (English and French summaries) **2004h:32041**
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32D20 Removable singularities

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32D26 Riemann domains

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32D99 None of the above, but in this section

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32Exx Holomorphic convexity

32E10 Stein spaces, Stein manifolds

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(Huckleberry, Alan T.) *see* **Grauert, Hans**, **2004k:32015**
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Colţoiu, Mihnea (*with* Tibăr, Mihai) Steinness of the universal covering of the complement of a 2-dimensional complex singularity. **2004d:32031**
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32E20 Polynomial convexity

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32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation

Tajima, Shinichi Algebraic analysis of multivariate Hermite interpolation formulas. **2004c:32021**
Verdoucq, Laurent Interpolation pour les fonctions de la classe $\mathscr{A}^{k,\alpha}$ dans les ellipsoïdes complexes de $\mathbb{C}^2$. [Interpolation for functions of class $\mathscr{A}^{k,\alpha}$ in complex ellipsoids of $\mathbb{C}^2$] **2004c:32022**

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Marco, Nicolas (*with* Massaneda, Xavier) On density conditions for interpolation in the ball. (English summary) **2004j:32003**
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Patyi, Imre On the Oka principle in a Banach space. I, II. (English summary) **2004f:32023**
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32E99 None of the above, but in this section

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32Fxx Geometric convexity

32F10 q-convexity, q-concavity

Joiţa, Cezar On the n-concavity of covering spaces with parameters. **2004i:32017**
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32F18 Finite-type conditions

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32F27 Topological consequences of geometric convexity

Colţoiu, Mihnea On q-Runge pairs. (English summary) **2004h:32013**

32F32 Analytical consequences of geometric convexity (vanishing theorems, etc.)

Items with secondary classifications in 32F32

Camacho, César (*with* Movasati, Hossein) ★ Neighborhoods of analytic varieties. **2004j:32008**
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Vâjâitu, Viorel Cohomology with compact supports for cohomologically q-convex spaces. (English summary) **2004i:32018**

32F45 Invariant metrics and pseudodistances

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Cheung, C. K. (*with* Kim, Kang-Tae) The constant curvature property of the Wu invariant metric. (English summary) **2004k:32016**
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— *see also* **Cheung, C. K.**, **2004k:32016**
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32Gxx Deformations of analytic structures

32G05 Deformations of complex structures [see also 13D10, 16S80, 58H10, 58H15]

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Merkulov, S. A. A note on extended complex manifolds. (English summary) **2004i:32021**

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Bruasse, Laurent Problèmes de stabilité et surfaces non kählériennes. (English and French summaries) [Stability problems and non-Kähler surfaces] **2004h:32017**
Honda, Nobuhiro Donaldson-Friedman construction and deformations of a triple of compact complex spaces. II. (English summary) **2004c:32039**
Konno, Hiroshi Variation of toric hyperkähler manifolds. (English summary) **2004j:53061**
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32G07 Deformations of special (e.g. CR) structures

Miyajima, Kimio Strongly pseudoconvex CR manifolds and deformation of normal isolated singularities [translation of Sūgaku **53** (2001), no. 2, 172–184]. (*see* **2004g:00024**)

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Akahori, Takao Homogeneous polynomial hypersurface isolated singularities. (English summary) **2004m:32053**
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32G08 Deformations of fiber bundles

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Kosarew, Siegmund Geometric and categorical nonabelian duality in complex geometry. (English summary) **2004k:14026**

32G10 Deformations of submanifolds and subspaces

Barlet, Daniel (*with* Kaddar, M.) Incidence divisor. (English summary) **2004c:32025**
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Ballico, Edoardo Discreteness for the set of complex structures on a real variety. (English summary) **2004e:32018**
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32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20, 14D22, 14H10, 14J10.} [see also 14H15, 14J15]

Arapura, Donu Higgs bundles, integrability, and holomorphic forms. **2004d:32010**
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Bruasse, Laurent Filtration de Harder-Narasimhan pour des fibrés complexes ou des faisceaux sans torsion. (English and French summaries) [Harder-Narasimhan filtration for complex bundles or torsion-free sheaves] **2004d:32021**
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32G15 Moduli of Riemann surfaces, Teichmüller theory [see also 14H15, 30Fxx]

Akrout, H. Singularités topologiques des systoles généralisées. (English and French summaries) [Topological singularities of generalized systoles] **2004k:32017**
Bogatyrëv, A. B. Representation of moduli spaces of curves and the computation of extremal polynomials. (Russian. Russian summary) **2004g:32011**
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Carfora, Mauro (*with* Marzuoli, Annalisa; Villani, P.) 2D dynamical triangulations and the Weil-Petersson measure. (English summary) **2004m:32021**
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32G20 Period matrices, variation of Hodge structure; degenerations [see also 14D05, 14D07, 14K30]

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32G34 Moduli and deformations for ordinary differential equations (e.g. Khnizhnik-Zamolodchikov equation) [see also 34Mxx]

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32G81 Applications to physics

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32Hxx Holomorphic mappings and correspondences

32H02 Holomorphic mappings, (holomorphic) embeddings and related questions

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Joseph, James E. (*with* Kwack, Myung H.) Normal maps and hyperbolicity. (English summary) **2004m:32050**
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32H04 Meromorphic mappings

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32H12 Boundary uniqueness of mappings

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32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22.}

Ru, Min A defect relation for holomorphic curves intersecting hypersurfaces. (English summary) **2004k:32026**

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32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22.}

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32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx.}

32J10 Algebraic dependence theorems

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32J15 Compact surfaces

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32J17 Compact 3-folds

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32J18 Compact n-folds

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32J25 Transcendental methods of algebraic geometry [see also 14C30]

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32J27 Compact Kähler manifolds: generalizations, classification

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32J81 Applications to physics

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Pillay, Anand (*with* Scanlon, Thomas Warren) Meromorphic groups. (English summary) **2004e:32024**
Scanlon, Thomas Warren *see* **Pillay, Anand, 2004e:32024**

32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number from Section 32 describing the type of problem)

32K05 Banach analytic spaces [see also 58Bxx]

Ballico, Edoardo Cancellation theorems for holomorphic vector bundles on infinite-dimensional complex spaces. (English summary) **2004h:32018**
— Infinite-dimensional complex projective varieties. (English summary) **2004h:32019**
— Uniformity of holomorphic vector bundles on infinite-dimensional flag manifolds. (English summary) **2004e:32021**
— Analytic subsets of products of infinite-dimensional projective spaces. (English summary) **2004m:32036**
— Holomorphic vector bundles on Zariski open subsets of infinite-dimensional projective spaces. (English summary) **2004b:32032**
— Gâteaux-analytic vector bundles on infinite-dimensional analytic sets. (English summary) **2004i:32035**
— Union of linear spaces in infinite-dimensional projective spaces and holomorphic vector bundles. (English summary) **2004h:32020**
— On two theorems of Bertini for infinite-dimensional projective spaces. (English summary) **2004m:32037**
— Banach complex manifolds, extensions of holomorphic line bundles and a vanishing theorem. (English summary) **2004k:32029**
— A universal complex structure on complete metrizable topological spaces. (English summary)
— Singular hypersurfaces of infinite-dimensional projective spaces. (English summary)
— Cohomologically q-complete analytic subsets of open subsets of $C^{(N)}$. (English summary)
— Normalization and weak normalization for certain infinite-dimensional complex spaces. (English summary)
— Infinite-dimensional q-complete manifolds and holomorphic Banach bundles. (English summary)
— Monodromy groups and a theorem of Bertini for complex Banach analytic projective sets. (English summary)
— Non-extendibility of certain holomorphic vector bundles on infinite-dimensional domains. (English summary)
— Queries on homogeneous polynomials and closed analytic subsets of an infinite-dimensional complex projective space. (English summary)
— Germs around polydiscs in complex normed spaces. (English summary)
— Sheaf cohomology with finite-dimensional support on infinite-dimensional complex manifolds. (English summary)
— Polynomially convex compacts of $\mathbf{C}^{\mathbf{N}}$ and sheaf cohomology. (English summary)
— The factoriality of the local ring of germs of quasi-analytic functions on a p-normed Banach space, $0 < p < 1$. (English summary)
— Coherent analytic sheaves on certain complex topological vector spaces. (English summary)
Hamada, Hidetaka (*with* Kohr, Gabriela) Subordination chains and the growth theorem of spirallike mappings. **2004c:32043**
Kohr, Gabriela *see* **Hamada, Hidetaka, 2004c:32043**
Patyi, Imre On the Oka principle in a Banach space. I, II. (English summary) **2004f:32023**

Items with secondary classifications in 32K05

Ballico, Edoardo Branched coverings and minimal free resolution for infinite-dimensional complex spaces. (English summary) **2004d:32022**
— Infinite-dimensional complex spaces with infinite-dimensional cohomology groups. (English summary) **2004i:32012**
— Minimal free resolutions and sheaves on a certain infinite-dimensional complex projective space. (English summary)

— Holomorphic vector bundles with infinite-dimensional fibers on complex projective varieties. (English summary) **2004m:32038**
Erat, Matjaž The cohomology of Banach space bundles over 1-convex manifolds is not always Hausdorff. (English summary) **2004a:32016**
Kim, Kang-Tae (*with* Krantz, Steven G.) Normal families of holomorphic functions and mappings on a Banach space. (English summary) **2004g:46059**
Krantz, Steven G. *see* **Kim, Kang-Tae**, **2004g:46059**
Le Mau Hai (*with* Pham Khac Ban) On the weak tautness and the locally weak tautness of a domain in a Banach space. (English summary) **2004b:46054**
Nguyen Dinh Lan *see* **Nguyen Van Khue**, **2004m:46105**
Nguyen Van Khue (*with* Nguyen Dinh Lan) Locally bounded holomorphic functions and the mixed Hartogs theorem. (English summary) **2004m:46105**
Pham Khac Ban *see* **Le Mau Hai**, **2004b:46054**
Puzir'ova, Ĭ. Symmetric analytic functions in L_p. (Ukrainian. English, Russian and Ukrainian summaries) **2004c:46097**

32K99 None of the above, but in this section

Ballico, Edoardo Continuous homogeneous polynomials and zero-dimensional analytic subsets of infinite-dimensional projective spaces. (English summary) **2004i:32036**

Items with secondary classifications in 32K99

Bayoumi, Aboubakr ★ Foundations of complex analysis in non locally convex spaces. **2004m:46102**
Budzyńska, Monika (*with* Kuczumow, Tadeusz; Sękowski, Tadeusz) Total sets and semicontinuity of the Kobayashi distance. (English summary) **2004c:46073**
Chu, Cho-Ho (*with* Honda, Tatsuhiro) A Schwarz lemma for bounded symmetric domains in Hilbert spaces. (English summary) **2004g:46058**
Honda, Tatsuhiro *see* **Chu, Cho-Ho**, **2004g:46058**
Kuczumow, Tadeusz *see* **Budzyńska, Monika et al.**, **2004c:46073**
Lempert, László On Fréchet spaces with a dominant norm. (English summary) **2004a:46007**
— Holomorphic approximation in Fréchet spaces. (English summary) **2004m:46057**
Sękowski, Tadeusz *see* **Budzyńska, Monika et al.**, **2004c:46073**
Takeuchi, Shigeru Infinite dimensional CR category. (English summary) (*see* **2004k:00017**)
Thai Thuan Quang Holomorphic functions of uniform type with values in Riemann domains. (English summary)
— Meromorphic functions of uniform type between duals of Fréchet spaces. (English summary) **2004m:46107**
Tran Huu Nam Meromorphic functions and the topological linear invariants $\overline{DN}$ and Ω.

32Lxx Holomorphic fiber spaces [see also 55Rxx]

32L05 Holomorphic bundles and generalizations

Álvarez-Cónsul, Luis (*with* García-Prada, Oscar) Dimensional reduction and quiver bundles. (English summary) **2004k:32030**
Aprodu, Marian (*with* Brînzănescu, Vasile) On the holomorphic rank-2 vector bundles with trivial discriminant over non-Kähler elliptic bundles. **2004c:32044**
— (*with* Brînzănescu, Vasile; Toma, Matei) Holomorphic vector bundles on primary Kodaira surfaces. **2004h:32021**
Ballico, Edoardo Holomorphic vector bundles on compact complex non-algebraic surfaces. (English and Italian summaries) **2004f:32024**
— Extension of holomorphic vector bundles across a boundary point. (English summary) **2004k:32031**
— Holomorphic Banach bundles on finite-dimensional q-complete complex manifolds. (English summary) **2004g:32023**
— Holomorphic vector bundles with infinite-dimensional fibers on compact Riemann surfaces: projective systems of bundles. (English summary) **2004j:32021**
— Minimal free resolutions and sheaves on a certain infinite-dimensional complex projective space. (English summary)
— Holomorphic vector bundles with infinite-dimensional fibers on complex projective varieties. (English summary) **2004m:32038**
— Seminormality and infinite-dimensional complex spaces. (English summary)
Biswas, Indranil Differential operators and flat connections on a Riemann surface. (English summary) **2004k:32032**
Brînzănescu, Vasile *see* **Aprodu, Marian et al.**, **2004c:32044** *and* **2004h:32021**
Bruasse, Laurent Filtration de Harder-Narasimhan pour des fibrés complexes ou des faisceaux sans torsion. (English and French summaries) [Harder-Narasimhan filtration for complex bundles or torsion-free sheaves] **2004d:32021**
García-Prada, Oscar *see* **Álvarez-Cónsul, Luis**, **2004k:32030**
Toma, Matei *see* **Aprodu, Marian et al.**, **2004h:32021**

Items with secondary classifications in 32L05

Azad, Hassan (*with* Biswas, Indranil) On holomorphic principal bundles over a compact Riemann surface admitting a flat connection. II. (English summary) **2004d:14043**
Ballico, Edoardo Cancellation theorems for holomorphic vector bundles on infinite-dimensional complex spaces. (English summary) **2004h:32018**
— Uniformity of holomorphic vector bundles on infinite-dimensional flag manifolds. (English summary) **2004e:32021**
— Holomorphic vector bundles on Zariski open subsets of infinite-dimensional projective spaces. (English summary) **2004b:32032**
— Holomorphic vector bundles on infinite-dimensional complex manifolds with a finite open trivializing covering. (English summary) **2004i:58006**
— Holomorphic vector bundles on open subsets of Stein manifolds. (English summary) **2004a:32031**
— Union of linear spaces in infinite-dimensional projective spaces and holomorphic vector bundles. (English summary) **2004h:32020**
— A universal complex structure on complete metrizable topological spaces. (English summary)
— Cohomologically q-complete analytic subsets of open subsets of $C^{(N)}$. (English summary)
— Normalization and weak normalization for certain infinite-dimensional complex spaces. (English summary)
— Infinite-dimensional q-complete manifolds and holomorphic Banach bundles. (English summary)
— Non-extendibility of certain holomorphic vector bundles on infinite-dimensional domains. (English summary)
Berndtsson, B. Bergman kernels related to Hermitian line bundles over compact complex manifolds. **2004m:58045**
— (*with* Rosay, Jean-Pierre) Quasi-isometric vector bundles and bounded factorization of holomorphic matrices. (English and French summaries) **2004i:30045**
Berthomieu, Alain Le spectre et la torsion analytique des fibrés en droites sur les tores complexes. (English summary) [Spectrum and analytic torsion of line bundles on complex tori] **2004f:58044**
Biswas, Indranil *see* **Azad, Hassan**, **2004d:14043**
Bloch, Spencer J. (*with* Esnault, Hélène) Relative algebraic differential characters. (English summary) **2004j:14012**
Donin, Joseph (*with* Penkov, Ivan) Finite rank vector bundles on inductive limits of Grassmannians. **2004c:14097**
Esnault, Hélène *see* **Bloch, Spencer J.**, **2004j:14012**
Muñoz, Vicente (*with* Presas, Francisco) Semipositive bundles and Brill-Noether theory. (English summary) **2004e:32029**
Penkov, Ivan *see* **Donin, Joseph**, **2004c:14097**
Polishchuk, Alexander (*with* Schwarz, Albert S.) Categories of holomorphic vector bundles on noncommutative two-tori. (English summary) **2004k:58011**
Presas, Francisco *see* **Muñoz, Vicente**, **2004e:32029**
Rollin, Yann Surfaces kählériennes de volume fini et équations de Seiberg-Witten. (English and French summaries) [Kähler surfaces of finite volume and Seiberg-Witten equations] **2004d:32030**
Rosay, Jean-Pierre *see* **Berndtsson, B.**, **2004i:30045**
Schwarz, Albert S. *see* **Polishchuk, Alexander**, **2004k:58011**
Suwa, Tatsuo Residues of Chern classes. (English summary) **2004e:14013**

32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [see also 14F05, 18F20, 55N30]

Ballico, Edoardo Holomorphic vector bundles on open subsets of Stein manifolds. (English summary) **2004a:32031**
Campillo-López, Antonio (*with* Olivares-Vázquez, J.) On sections with isolated singularities of twisted bundles and applications to foliations by curves. (English summary) **2004k:32033**
Feng, Hui Tao Holomorphic equivariant cohomology via a transversal holomorphic vector field. (English summary) **2004j:32022**
Olivares-Vázquez, J. *see* **Campillo-López, Antonio**, **2004k:32033**
Polishchuk, Alexander Homological mirror symmetry with higher products. (English summary) **2004b:32033**
Shiffman, Bernard (*with* Tate, Tatsuya; Zelditch, Steve) Harmonic analysis on toric varieties. **2004m:32039**
Tate, Tatsuya *see* **Shiffman, Bernard et al.**, **2004m:32039**
Zelditch, Steve *see* **Shiffman, Bernard et al.**, **2004m:32039**

Items with secondary classifications in 32L10

Ballico, Edoardo Union of linear spaces in infinite-dimensional projective spaces and holomorphic vector bundles. (English summary) **2004h:32020**
— Sheaf cohomology with finite-dimensional support on infinite-dimensional complex manifolds. (English summary)
— Seminormality and infinite-dimensional complex spaces. (English summary)
Berthomieu, Alain Proof of Nadel's conjecture and direct image for relative K-theory. (English and French summaries) **2004k:19004**
Eastwood, Michael G. (*with* Sawon, Justin) The Borel-Weil theorem for complex projective space. **2004g:22009**
Erat, Matjaž The cohomology of Banach space bundles over 1-convex manifolds is not always Hausdorff. (English summary) **2004a:32016**
Ma, Xiaonan Formes de torsion analytique et fibrations singulières. (English and French summaries) [Analytic torsion forms and singular fibrations] **2004j:58040**
Nieper-Wisskirchen, Marc A. Hirzebruch-Riemann-Roch formulae on irreducible symplectic Kähler manifolds. (English summary) **2004e:53069**
Patyi, Imre On the Oka principle in a Banach space. I, II. (English summary) **2004f:32023**
Sawon, Justin *see* **Eastwood, Michael G.**, **2004g:22009**

32L20 Vanishing theorems

Ballico, Edoardo Branched coverings and minimal free resolution for infinite-dimensional complex spaces. (English summary) **2004d:32022**
Demailly, Jean-Pierre (*with* Peternell, Thomas) A Kawamata-Viehweg vanishing theorem on compact Kähler manifolds. (English summary) **2004m:32040**
Kajiwara, Joji (*with* Li, Xiao Dong[2]; Shon, Kwang Ho) Global existence of partial differential equations with parameter in Hilbert space. (English summary) **2004j:32023**
Li, Xiao Dong[2] *see* **Kajiwara, Joji et al.**, **2004j:32023**
McNeal, Jeffery D. A vanishing theorem for L^2 cohomology on complete manifolds. (English summary) **2004f:32025**
Peternell, Thomas *see* **Demailly, Jean-Pierre**, **2004m:32040**
Shon, Kwang Ho *see* **Kajiwara, Joji et al.**, **2004j:32023**

Items with secondary classifications in 32L20

Ballico, Edoardo Banach complex manifolds, extensions of holomorphic line bundles and a vanishing theorem. (English summary) **2004k:32029**

— Germs around polydiscs in complex normed spaces. (English summary)

32L25 Twistor theory, double fibrations [see also 53C28]

Bailey, Toby N. (*with* Eastwood, Michael G.; Gindikin, Simon G.) Nonclassical descriptions of analytic cohomology. **2004e:32022**
David, Liana The X-ray transform for currents. (English summary) **2004a:32032**
Eastwood, Michael G. *see* **Bailey, Toby N. et al., 2004e:32022**
Gindikin, Simon G. *see* **Bailey, Toby N. et al., 2004e:32022**
Marastoni, Corrado (*with* Tanisaki, Toshiyuki) Radon transforms for quasi-equivariant $\mathscr{D}$-modules on generalized flag manifolds. (English summary) **2004c:32045**
Tanisaki, Toshiyuki *see* **Marastoni, Corrado, 2004c:32045**

Items with secondary classifications in 32L25

Fujiki, Akira On the general fiber of an algebraic reduction of a compact complex manifold of algebraic codimension two. **2004b:32030**
Honda, Nobuhiro Donaldson-Friedman construction and deformations of a triple of compact complex spaces. II. (English summary) **2004c:32039**
Mason, Lionel J. (*with* Singer, Michael A.[1]; Woodhouse, N. M. J.) Tau-functions, twistor theory, and quantum field theory. (English summary) **2004b:37146**
Müller, Franz On parallel composition of twistor diagrams. (English summary) **2004i:81110**
Ohyama, Yousuke Isomonodromy deformations and twistor theory. **2004k:32020**
Shklyarov, D. L. (*with* Sinel′shchikov, S. D.; Stolin, Alexander; Vaksman, L.) On a q-analogue of the Penrose transform. (English, Russian and Ukrainian summaries) **2004b:81081**
Sinel′shchikov, S. D. *see* **Shklyarov, D. L. et al., 2004b:81081**
Singer, Michael A.[1] *see* **Mason, Lionel J. et al., 2004b:37146**
Small, Anthony Algebraic minimal surfaces in $\mathbf{R}^4$. (English summary) **2004k:53093**
Stolin, Alexander *see* **Shklyarov, D. L. et al., 2004b:81081**
Vaksman, L. *see* **Shklyarov, D. L. et al., 2004b:81081**
Woodhouse, N. M. J. *see* **Mason, Lionel J. et al., 2004b:37146**

32L81 Applications to physics

Items with secondary classifications in 32L81

Botero, Alonso Geometric phase and modulus relations for probability amplitudes as functions on complex parameter spaces. (English summary) **2004j:81068**
Bukhbinder, E. I. (*with* Donagi, Ron; Ovrut, Burt A.) Superpotentials for vector bundle moduli. (English summary) **2004a:81177**
Donagi, Ron *see* **Bukhbinder, E. I. et al., 2004a:81177**
Ovrut, Burt A. *see* **Bukhbinder, E. I. et al., 2004a:81177**

32Mxx Complex spaces with a group of automorphisms

32M05 Complex Lie groups, automorphism groups acting on complex spaces [see also 22E10]

Byun, Jisoo The conditions for repelling the automorphism orbit from the boundary point. (English summary) **2004d:32024**
— On the boundary accumulation points for the holomorphic automorphism groups. **2004d:32023**
Deroin, Bertrand Sur la conjecture de Remmert. (English summary) [On Remmert's conjecture] **2004k:32034**
de Fabritiis, Chiara Generic subgroups of Aut $\mathbb{B}^n$. (English summary) **2004e:32023**
Fridman, Buma L. (*with* Ma, Daowei) Perturbation of domains and automorphism groups. (English summary) **2004d:32025**
Kim, Kang-Tae (*with* Krantz, Steven G.) Some new results on domains in complex space with non-compact automorphism group. (English summary) **2004c:32046**
Kodama, Akio (*with* Shimizu, Satoru[1]) A characterization of $\mathbf{C}^k \times (\mathbf{C}^*)^l$ from the viewpoint of biholomorphic automorphism groups. (English summary) **2004c:32047**
— (*with* Shimizu, Satoru[1]) A group-theoretic characterization of the space obtained by omitting the coordinate hyperplanes from the complex Euclidean space. **2004m:32041**
Krantz, Steven G. *see* **Kim, Kang-Tae, 2004c:32046**
Ma, Daowei *see* **Fridman, Buma L., 2004d:32025**
Pillay, Anand (*with* Scanlon, Thomas Warren) Meromorphic groups. (English summary) **2004e:32024**
Scanlon, Thomas Warren *see* **Pillay, Anand, 2004e:32024**
Shimizu, Satoru[1] *see* **Kodama, Akio, 2004c:32047** *and* **2004m:32041**

Items with secondary classifications in 32M05

Halverscheid, S. (*with* Iannuzzi, Andrea) Maximal complexifications of certain homogeneous Riemannian manifolds. (English summary) **2004e:53111**
Hind, Richard Antiholomorphic involutions on Stein manifolds. (English summary) **2004h:32025**
Honda, Nobuhiro Donaldson-Friedman construction and deformations of a triple of compact complex spaces. II. (English summary) **2004c:32039**
Iannuzzi, Andrea Induced local actions on taut and Stein manifolds. (English summary) **2004i:32042**
— *see also* **Halverscheid, S., 2004e:53111**
Kim, Kang-Tae (*with* Ma, Daowei) Characterization of the Hilbert ball by its automorphisms. (English summary) **2004e:58010**
Ma, Daowei *see* **Kim, Kang-Tae, 2004e:58010**
Semmes, Stephen An introduction to Heisenberg groups in analysis and geometry. **2004e:22008**
Umeno, Takashi Period matrices for quasi-abelian varieties. (English summary) **2004c:32029**
Wong, Bun On complex manifolds with noncompact automorphism groups. **2004k:32037**

32M10 Homogeneous complex manifolds [see also 14M17, 57T15]

Guan, Zhuang Dan Toward a classification of compact complex homogeneous spaces. (English summary) **2004k:32035**
Nomura, Takaaki Family of Cayley transforms of a homogeneous Siegel domain parametrized by admissible linear forms. (English summary) **2004c:32048**
Sankaran, Parameswaran A coincidence theorem for holomorphic maps to G/P. (English summary) **2004i:32037**

Items with secondary classifications in 32M10

Bremigan, Ralph (*with* Lorch, John) Orbit duality for flag manifolds. (English summary) **2004b:22020**
Deroin, Bertrand Sur la conjecture de Remmert. (English summary) [On Remmert's conjecture] **2004k:32034**
Lorch, John *see* **Bremigan, Ralph, 2004b:22020**
Nomura, Takaaki Cayley transforms and symmetry conditions for homogeneous Siegel domains. (English summary) **2004e:32026**
Sancho de Salas, Carlos Complete homogeneous varieties: structure and classification. (English summary) **2004d:14072**

32M12 Almost homogeneous manifolds and spaces [see also 14M17]

Items with secondary classifications in 32M12

Guan, Zhuang Dan Existence of extremal metrics on almost homogeneous manifolds of cohomogeneity one. III. (English summary) **2004d:32029**
Vo Van Tan An analogue of Hartshorne and Serre problems for 1-convex surfaces. (English and French summaries) **2004d:32019**

32M15 Hermitian symmetric spaces, bounded symmetric domains, Jordan algebras [see also 22E10, 22E40, 53C35, 57T15]

Arazy, Jonathan (*with* Upmeier, Harald) Boundary measures for symmetric domains and integral formulas for the discrete Wallach points. (English summary) **2004m:32042**
Clerc, Jean-Louis A triple ratio on the Silov boundary of a bounded symmetric domain. (English summary) **2004e:32025**
Kaneyuki, Soji Compactification of parahermitian symmetric spaces and its applications. II. Stratifications and automorphism groups. (English summary) **2004k:32036**
Kaup, Wilhelm Bounded symmetric domains and derived geometric structures. (English summary) **2004c:32049**
Nomura, Takaaki Cayley transforms and symmetry conditions for homogeneous Siegel domains. (English summary) **2004e:32026**
— Geometric norm equality related to the harmonicity of the Poisson kernel for homogeneous Siegel domains. (English summary) **2004a:32033**
Upmeier, Harald *see* **Arazy, Jonathan, 2004m:32042**
Yin, Wei Ping *see* **Zhao, Zhengang, 2004b:32034**
Zhang, Genkai Branching coefficients of holomorphic representations and Segal-Bargmann transform. (English summary) **2004f:32026**
Zhao, Zhengang (*with* Yin, Wei Ping) Characterization of the classical domains by Carathéodory volume elements and Eisenman-Kobayashi volume elements. (English summary) **2004b:32034**

Items with secondary classifications in 32M15

Arazy, Jonathan (*with* Upmeier, Harald) Weyl calculus for complex and real symmetric domains. (English summary) **2004h:43011**
— (*with* Zhang, Genkai) Homogeneous multiplication operators on bounded symmetric domains. (English summary) **2004e:47042**
Betten, Frank Causal compactification of compactly causal spaces. (English summary) **2004f:53058**
Boussejra, Abdelhamid L^2-Poisson integral representations of solutions of the Hua system on the bounded symmetric domain $\mathrm{SU}(n,n)/\mathrm{S}(\mathrm{U}(n) \times \mathrm{U}(n))$. (English summary) **2004g:43009**
Buraczewski, Dariusz (*with* Damek, Ewa) Hua-harmonic functions on symmetric type two Siegel domains. (English summary) **2004i:32010**
Burns, Daniel M., Jr. (*with* Halverscheid, S.; Hind, Richard) The geometry of Grauert tubes and complexification of symmetric spaces. (English summary) **2004g:32025**
Clerc, Jean-Louis L'indice de Maslov généralisé. (English and French summaries) [Generalized Maslov index] **2004k:53127**
Damek, Ewa *see* **Buraczewski, Dariusz, 2004i:32010**
Davidson, Mark G. (*with* Ólafsson, Gestur) Differential recursion relations for Laguerre functions on Hermitian matrices. (English summary) **2004k:33017**
— (*with* Ólafsson, Gestur; Zhang, Genkai) Laplace and Segal-Bargmann transforms on Hermitian symmetric spaces and orthogonal polynomials. (English summary) **2004j:43012**
De Oliveira, M. P. On 3-graded Lie algebras, Jordan pairs and the canonical kernel function. (English summary) **2004k:17054**
van Dijk, G. A new approach to Berezin kernels and canonical representations. (English summary) **2004f:22013**
— (*with* Pevzner, Michel) Berezin kernels and maximal degenerate representations associated with Riemannian symmetric spaces of Hermitian type. (English and Russian summaries) **2004c:43014**
Guan, Bing Xin *see* **Yin, Wei Ping, 2004b:32004**
Halverscheid, S. *see* **Burns, Daniel M., Jr. et al., 2004g:32025**
Hind, Richard *see* **Burns, Daniel M., Jr. et al., 2004g:32025**
Kähler, Uwe *see* **Ren, Guangbin, 2004f:32008**
Kaup, Wilhelm (*with* Zaitsev, Dmitri) On the CR-structure of compact group orbits associated with bounded symmetric domains. **2004h:32040**

Li, Yong Qun D^P multipliers on bounded symmetric domains. (Chinese. English and Chinese summaries) **2004g:32008**
Mackey, Michael T. (*with* Mellon, P.) Angular derivatives on bounded symmetric domains. (English summary) **2004m:32033**
Mellon, P. *see* **Mackey, Michael T., 2004m:32033**
Miao, Jie Commutators on bounded symmetric domains in $\mathbb{C}^n$. (English summary) **2004c:47100**
Ólafsson, Gestur *see* **Davidson, Mark G. et al., 2004j:43012** *and* **2004k:33017**
Peng, Li Zhong (*with* Zhang, Genkai) Tensor products of holomorphic representations and bilinear differential operators. (English summary) **2004m:22024**
Pevzner, Michel *see* **van Dijk, G., 2004c:43014**
Ren, Guangbin (*with* Kähler, Uwe) Radial derivative on bounded symmetric domains. (English summary) **2004f:32008**
Shklyarov, D. L. (*with* Zhang, Genkai) Berezin transform on the quantum unit ball. (English summary) **2004i:33034**
Su, Jian Bing *see* **Yin, Wei Ping, 2004b:32017**
Upmeier, Harald *see* **Arazy, Jonathan, 2004h:43011**
Vaksman, L. The maximum principle for "holomorphic functions" in the quantum ball. (Russian. English, Russian and Ukrainian summaries) **2004h:46088**
Yin, Wei Ping (*with* Guan, Bing Xin) The Bergman kernel function on Hua domains of the fourth type. (Chinese. English and Chinese summaries) **2004b:32004**
— (*with* Zhao, Xiao Xia) The comparison theorem on super-Cartan domains of the third type. (Chinese. English and Chinese summaries) **2004i:32020**
— (*with* Zhao, Xiao Xia) The Bergman kernels on Hua domains of the third type. (Chinese. English and Chinese summaries) **2004b:32005**
— (*with* Su, Jian Bing) Extremal problems on super-Cartan domain of the first type. (English summary) **2004b:32017**
Zaitsev, Dmitri *see* **Kaup, Wilhelm, 2004h:32040**
Zhang, Genkai Nearly holomorphic functions and relative discrete series of weighted L^2-spaces on bounded symmetric domains. (English summary) **2004g:43011**
— *see also* **Arazy, Jonathan, 2004e:47042**; **Shklyarov, D. L., 2004i:33034**; **Davidson, Mark G. et al., 2004j:43012** *and* **Peng, Li Zhong, 2004m:22024**
Zhao, Xiao Xia *see* **Yin, Wei Ping, 2004b:32005** *and* **2004i:32020**

32M17 Automorphism groups of $\mathbb{C}^n$ and affine manifolds

Buzzard, Gregery T. (*with* Merenkov, Sergei) Maps conjugating holomorphic maps in $\mathbb{C}^n$. (English summary) **2004g:32024**
Fridman, Buma L. (*with* Ma, Daowei; Poletsky, Evgeny A.) Upper semicontinuity of the dimensions of automorphism groups of domains in $\mathbb{C}^N$. (English summary) **2004f:32027**
Krantz, Steven G. Correction to: "Determination of a domain in complex space by its automorphism group" [Complex Var. Theory Appl. **47** (2002), no. 3, 215–223; MR 2002m:32036]. (English summary) **2004f:32028**
Ma, Daowei *see* **Fridman, Buma L. et al., 2004f:32027**
Merenkov, Sergei *see* **Buzzard, Gregery T., 2004g:32024**
Poletsky, Evgeny A. *see* **Fridman, Buma L. et al., 2004f:32027**
Wong, Bun On complex manifolds with noncompact automorphism groups. **2004k:32037**

Items with secondary classifications in 32M17

Isaev, A. V. (*with* Kruzhilin, N. G.) Effective actions of the unitary group on complex manifolds. (English summary) **2004a:32039**
Kodama, Akio (*with* Shimizu, Satoru[1]) A characterization of $\mathbf{C}^k \times (\mathbf{C}^*)^l$ from the viewpoint of biholomorphic automorphism groups. (English summary) **2004c:32047**
— (*with* Shimizu, Satoru[1]) A group-theoretic characterization of the space obtained by omitting the coordinate hyperplanes from the complex Euclidean space. **2004m:32041**
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32M25 Complex vector fields

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32Nxx Automorphic functions [see also 11Fxx, 20H10, 22E40, 30F35]

32N10 Automorphic forms

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32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)

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32Qxx Complex manifolds

32Q05 Negative curvature manifolds

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Wu, Hung-Hsi (*with* Zheng, Fangyang) Compact Kähler manifolds with nonpositive bisectional curvature. (English summary) **2004b:53128**
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32Q10 Positive curvature manifolds

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32Q15 Kähler manifolds

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32Q20 Kähler-Einstein manifolds [see also 53Cxx]

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32Q25 Calabi-Yau theory

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— (*with* Siebert, Bernd) Affine manifolds, log structures, and mirror symmetry. (English summary) **2004g:14041**
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32Q28 Stein manifolds

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32Q30 Uniformization

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32Q35 Complex manifolds as subdomains of Euclidean space

Items with secondary classifications in 32Q35

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32Q40 Embedding theorems

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32Q45 Hyperbolic and Kobayashi hyperbolic manifolds

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32S45 Modifications; resolution of singularities [see also 14E15]

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32S50 Topological aspects: Lefschetz theorems, topological classification, invariants

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32S55 Milnor fibration; relations with knot theory [see also 57M25, 57Q45]

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32S60 Stratifications; constructible sheaves; intersection cohomology [see also 58Kxx]

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32S65 Singularities of holomorphic vector fields and foliations

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Azevedo Scárdua, Bruno ★ Sobre a teoria global das folheações holomorfas. (Portuguese) [The global theory of holomorphic foliations] **2004j:32033**
— *see also* **Ito, Toshikazu, 2004i:32050**
Ballico, Edoardo On linear systems induced by the singularities of a meromorphic foliation of $\mathbf{CP}^2$. (English summary)
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Brunella, Marco Plurisubharmonic variation of the leafwise Poincaré metric. (English summary) **2004c:32062**
— On the regularity of the leafwise Poincaré metric. (English summary) **2004m:32059**
Bustinduy, Alvaro Zeroes of complete polynomial vector fields. (English summary) **2004h:32033**
Calvo Andrade, Omegar ★ El espacio de foliaciones holomorfas de codimensión uno. (Portuguese) [The space of codimension-one holomorphic foliations] **2004j:32034**
Cantat, Serge (*with* Favre, Charles) Symétries birationnelles des surfaces feuilletées. (English summary) [Birational symmetries of foliated surfaces] **2004i:32048**
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Ito, Toshikazu (*with* Azevedo Scárdua, Bruno) On holomorphic one-forms transverse to closed hypersurfaces. (English and Portuguese summaries) **2004i:32050**
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Klehn, Oliver On the index of a vector field tangent to a hypersurface with non-isolated zero in the embedding space. (English summary) **2004i:32051**
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Lins Neto, Alcides Foliations on $\mathbb{C}\mathrm{P}(2)$ with invariant algebraic curve and radial singularities. (Portuguese. English summary) **2004a:32049**
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— (*with* Morales, Carlos) ★ Geometry, dynamics and topology of foliated manifolds. **2004m:57061**
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— *see also* **Campillo-López, Antonio, 2004k:32033**
Teyssier, Loïc Analytical classification of saddle-node vector fields. (English and French summaries) **2004e:37072**
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32S70 Other operations on singularities

Rodak, Tomasz The Łojasiewicz exponent of the gradient at infinity. (English summary) **2004e:32032**

32S99 None of the above, but in this section

Items with secondary classifications in 32S99

Rodak, Tomasz The Łojasiewicz exponent of the gradient at infinity. (English summary) **2004e:32032**

32Txx Pseudoconvex domains

32T05 Domains of holomorphy

Patyi, Imre Cohomological characterization of pseudoconvexity in a Banach space. (English summary) **2004m:32063**

Items with secondary classifications in 32T05

Kajiwara, Joji (*with* Li, Xiao Dong[2]; Shon, Kwang Ho) Global existence of partial differential equations with parameter in Hilbert space. (English summary) **2004j:32023**
Li, Xiao Dong[2] *see* **Kajiwara, Joji et al., 2004j:32023**
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32T15 Strongly pseudoconvex domains

Forstnerič, Franc (*with* Kozak, Jernej) Strongly pseudoconvex handlebodies. (English summary) **2004m:32064**
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Shcherbina, N. V. (*with* Tomassini, Giuseppe) Levi-flat extensions from a part of the boundary. (English and French summaries) **2004k:32053**
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Items with secondary classifications in 32T15

Adachi, Kenzō L^p-extension of holomorphic functions from submanifolds to strictly pseudoconvex domains with non-smooth boundary. (English summary) **2004k:32013**
Daras, Nicholas J. On Riemann's mapping theorem. (English summary) **2004a:32024**
Huang, Xiao Jun[1] (*with* Ji, Shanyu) Cartan-Chern-Moser theory on algebraic hypersurfaces and an application to the study of automorphism groups of algebraic domains. (English and French summaries) **2004c:32075**
Ji, Shanyu *see* **Huang, Xiao Jun[1], 2004c:32075**
Kuranishi, Masatake The formula for the singularity of Szegö kernel. I. (English summary) **2004i:32005**
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32T25 Finite type domains

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Byun, Jisoo On the boundary accumulation points for the holomorphic automorphism groups. **2004d:32023**
Cho, Hong Rae Estimates on the mean growth of H^p functions in convex domains of finite type. (English summary) **2004f:32007**
— *see also* **Ahn, Heungju, 2004g:32034**
Cho, Sanghyun Estimates of invariant metrics on pseudoconvex domains with comparable Levi form. (English summary) **2004c:32023**
— Boundary behavior of the Bergman kernel function on pseudoconvex domains with comparable Levi form. (English summary) **2004e:32002**
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32T40 Peak functions

Items with secondary classifications in 32T40

Gashitsoi, N. Criterion of the existence of $\mathscr{K}$-admissible limits of holomorphic maps. (English summary) **2004d:32006**

32T99 None of the above, but in this section

Dupont, Christophe Exemples de Lattès et domaines faiblement sphériques de $\mathbb{C}^n$. (English summary) [Lattès examples and weakly spherical domains in $\mathbb{C}^n$] **2004g:32028**
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32Uxx Pluripotential theory

32U05 Plurisubharmonic functions and generalizations [see also 31C10]

Alesker, Semyon Non-commutative linear algebra and plurisubharmonic functions of quaternionic variables. (English summary) **2004b:32054**
Benelkourchi, Slimane (*with* Jennane, Bensalem) Intégrabilité uniforme semi-globale d'une classe de fonctions plurisousharmoniques. (English and French summaries) [Semiglobal uniform integrability for a class of plurisubharmonic functions] **2004g:32029**
Bloom, T. (*with* Levenberg, N.) Distribution of nodes on algebraic curves in $\mathbb{C}^N$. (English and French summaries) **2004j:32035**
Braun, Rüdiger W. (*with* Meise, Reinhold; Taylor, B. A.) Local radial Phragmén-Lindelöf estimates for plurisubharmonic functions on analytic varieties. (English summary) **2004a:32051**
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Jennane, Bensalem *see* **Benelkourchi, Slimane, 2004g:32029**
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Rosay, Jean-Pierre Poletsky theory of disks on holomorphic manifolds. (English summary) **2004a:32053**
— Approximation of non-holomorphic maps, and Poletsky theory of discs. (English summary) **2004c:32065**
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32U10 Plurisubharmonic exhaustion functions

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32Vxx CR manifolds

32V05 CR structures, CR operators, and generalizations

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32V10 CR functions

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32V15 CR manifolds as boundaries of domains

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32V25 Extension of functions and other analytic objects from CR manifolds

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32V30 Embeddings of CR manifolds

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32V35 Finite type conditions on CR manifolds

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32V40 Real submanifolds in complex manifolds

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— (*with* Merker, Joël) Symmetries of partial differential equations. (English summary) **2004c:32074**
Huang, Xiao Jun[1] (*with* Ji, Shanyu) Cartan-Chern-Moser theory on algebraic hypersurfaces and an application to the study of automorphism groups of algebraic domains. (English and French summaries) **2004c:32075**
Ji, Shanyu *see* **Huang, Xiao Jun[1], 2004c:32075**
Khodarev, A. S. *see* **Loboda, A. V., 2004m:32072**
Lamel, B. *see* **Ebenfelt, P. et al., 2004g:32033**
Loboda, A. V. (*with* Khodarev, A. S.) On a family of affine-homogeneous real hypersurfaces of a three-dimensional complex space. (Russian) **2004m:32072**
— On the determination of a homogeneous strictly pseudoconvex hypersurface from the coefficients of its normal equation. (Russian) **2004e:32038**
Merker, Joël *see* **Gaussier, Hervé, 2004c:32074; 2004e:32036** *and* **2004e:32037**
Mir, Nordine Convergence of formal embeddings between real-analytic hypersurfaces in codimension one. (English summary) **2004b:32061**
Rothschild, Linda Preiss *see* **Baouendi, M. Salah et al., 2004f:32050**
Sarkis, Frédéric Problème de Plateau complexe dans les variétés kählériennes. (English and French summaries) [Complex Plateau problem in Kähler manifolds] **2004d:32052**
Schmalz, Gerd *see* **Ezhov, Vladimir V., 2004i:32059**
Zaitsev, Dmitri *see* **Ebenfelt, P. et al., 2004g:32033**

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Diederich, Klas (*with* Pinchuk, S. I.) Regularity of continuous CR maps in arbitrary dimension. **2004k:32058a**
— (*with* Pinchuk, S. I.) Erratum: "Regularity of continuous CR maps in arbitrary dimension" [Michigan Math. J. **51** (2003), no. 1, 111–140]. **2004k:32058b**
Forstnerič, Franc Stein domains in complex surfaces. (English summary) **2004c:32050**
Merker, Joël On envelopes of holomorphy of domains covered by Levi-flat hats and the reflection principle. (English and French summaries) **2004c:32071**
Meylan, Francine (*with* Mir, Nordine; Zaitsev, Dmitri) Approximation and convergence of formal CR-mappings. **2004b:32058**
Mir, Nordine Analytic regularity of CR maps into spheres. (English summary) **2004m:32070**
— *see also* **Meylan, Francine et al., 2004b:32058**
Pinchuk, S. I. *see* **Diederich, Klas, 2004k:32058a** *and* **2004k:32058b**
Rothschild, Linda Preiss Mappings between real submanifolds in complex space. **2004h:32039**
Schmalz, Gerd (*with* Spiro, Andrea F.) Normal systems of coordinates on manifolds of Chern-Moser type. (English summary) **2004c:32068**
Spiro, Andrea F. *see* **Schmalz, Gerd, 2004c:32068**
Zaitsev, Dmitri *see* **Meylan, Francine et al., 2004b:32058**

32V99 None of the above, but in this section

Takeuchi, Shigeru Infinite dimensional CR category. (English summary) (*see* **2004k:00017**)

32Wxx Differential operators in several variables

32W05 $\overline{\partial}$ and $\overline{\partial}$-Neumann operators

Ahn, Heungju L^p estimates with weights for the $\overline{\partial}$-equation on real ellipsoids in $\mathbb{C}^n$. (English summary) **2004b:32062**
— (*with* Cho, Hong Rae) Optimal Sobolev estimates for $\overline{\partial}$ on convex domains of finite type. (English summary) **2004g:32034**
Andersson, Mats E. L. (*with* Berndtsson, B.) Almost holomorphic extensions of ultradifferentiable functions. (English summary) **2004e:32039**
Berndtsson, B. *see* **Andersson, Mats E. L., 2004e:32039**
Cho, Hong Rae *see* **Ahn, Heungju, 2004g:32034**
Darko, Patrick W. A note on Hölder estimates for the $\overline{\partial}$-operator on polycylinders. (English summary) **2004c:32040**
Diederich, Klas (*with* Fornæss, John Erik; Vassiliadou, Sophia) Local L^2 results for $\overline{\partial}$ on a singular surface. (English summary) **2004b:32063**
Ehsani, Dariush Solution of the $\overline{\partial}$-Neumann problem on a non-smooth domain. (English summary) **2004f:32051**
— Solution of the $\overline{\partial}$-Neumann problem on a bi-disc. (English summary) **2004f:32052**
Fornæss, John Erik *see* **Diederich, Klas et al., 2004b:32063**
Fu, Siqi (*with* Straube, Emil J.) Compactness in the $\overline{\partial}$-Neumann problem. **2004d:32053**
— (*with* Straube, Emil J.) Semi-classical analysis of Schrödinger operators and compactness in the $\overline{\partial}$-Neumann problem. (English summary) **2004a:32059a**
— (*with* Straube, Emil J.) Correction to: "Semi-classical analysis of Schrödinger operators and compactness in the $\overline{\partial}$-Neumann problem" [J. Math. Anal. Appl. **271** (2002), no. 1, 267–282; MR 2004a:32059a]. **2004a:32059b**
Harris, Adam A survey of boundary value problems for bundles over complex spaces. (English summary) **2004k:32062**
Hefer, Torsten Hölder and L^p estimates for $\overline{\partial}$ on convex domains of finite type depending on Catlin's multitype. **2004e:32041**
Henkin, Gennadi M. (*with* Iordan, Andrei) Erratum to: "Regularity of $\overline{\partial}$ on pseudoconcave compacts and applications" [Asian J. Math. **4** (2000), no. 4, 855–883]. **2004i:32060**
Hörmander, Lars A history of existence theorems for the Cauchy-Riemann complex in L^2 spaces. (English summary) **2004b:32064**
Iordan, Andrei *see* **Henkin, Gennadi M., 2004i:32060**
Lampert, Christoph H. ★ Der Neumannoperator in streng pseudokonvexen Gebieten mit gewichteter Bergmanmetrik. (German) [The Neumann operator in strongly pseudoconvex domains with weighted Bergman metrics] **2004i:32061**
McNeal, Jeffery D. A sufficient condition for compactness of the $\overline{\partial}$-Neumann operator. (English summary) **2004a:32060**
— Subelliptic estimates and scaling in the $\overline{\partial}$-Neumann problem. **2004j:32043**
Ricard, Hélène Estimations $\mathscr{C}^k$ pour l'opérateur de Cauchy-Riemann sur des domaines à coins q-convexes et q-concaves. [$\mathscr{C}^k$-estimates for the Cauchy-Riemann operator on q-convex and q-concave domains with corners] **2004f:32053**
Sambou, Salomon Résolution du $\overline{\partial}$ pour les courants prolongeables définis dans un anneau. (English and French summaries) [Resolution of $\overline{\partial}$ for extendable currents defined in an annulus] **2004f:32054**
Straube, Emil J. *see* **Fu, Siqi, 2004a:32059a; 2004a:32059b** *and* **2004d:32053**
Vassiliadou, Sophia *see* **Diederich, Klas et al., 2004b:32063**

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Adachi, Kenzō Integral formula and its applications to the $\overline{\partial}$ problem and the extension problem. (English summary) **2004m:32008**
Alexandre, William Estimées C^k pour les couronnes de convexes de type fini de $\mathbb{C}^n$. (English and French summaries) [C^k estimates for annuli of convex domains of finite type in $\mathbb{C}^n$] **2004f:32042**
Barrett, David E. (*with* Vassiliadou, Sophia) The Bergman kernel on the intersection of two balls in $\mathbb{C}^2$. (English summary) **2004i:32004**
Harris, Adam (*with* Tonegawa, Yoshihiro) A $\overline{\partial}\partial$-Poincaré lemma for forms near an isolated complex singularity. (English summary) **2004j:32014**
Huang, Yu Sheng (*with* Lin, Liang Yu) The Cauchy formula with discrete kernel and $\overline{\partial}$-equation on a bounded domain. (Chinese. English and Chinese summaries)
Lin, Liang Yu *see* **Huang, Yu Sheng**
Lovera, S. (*with* Youssfi, E. H.) Spectral properties of the $\overline{\partial}$-canonical solution operator. (English summary) **2004j:47068**
Mohammed, Alip The Riemann-Hilbert-Poincaré problem for holomorphic functions in polydiscs. (English summary) (*see* **2004i:00014**)
Tonegawa, Yoshihiro *see* **Harris, Adam, 2004j:32014**
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Verdoucq, Laurent Interpolation pour les fonctions de la classe $\mathscr{A}^{k,\alpha}$ dans les ellipsoïdes complexes de $\mathbb{C}^2$. [Interpolation for functions of class $\mathscr{A}^{k,\alpha}$ in complex ellipsoids of $\mathbb{C}^2$] **2004c:32022**
Youssfi, E. H. *see* **Lovera, S., 2004j:47068**

32W10 $\overline{\partial}_b$ and $\overline{\partial}_b$-Neumann operators

Ahn, Heungju (*with* Cho, Hong Rae) Optimal Hölder and L^p estimates for $\overline{\partial}_b$ on boundaries of convex domains of finite type. (English summary) **2004g:32035**
Cho, Hong Rae *see* **Ahn, Heungju, 2004g:32035**
Ma, Zhong Tai $C^{s+\alpha}_{p,q}$-forms solution of $\overline{\partial}_b$-equation and its $L^s_{p,q}$ estimates. (English summary) **2004j:32044**
Peloso, Marco M. (*with* Ricci, Fulvio) Tangential Cauchy-Riemann equations on quadratic CR manifolds. (English summary) **2004c:32076**
Ricci, Fulvio *see* **Peloso, Marco M., 2004c:32076**
Shaw, Mei-Chi L^2 estimates and existence theorems for $\overline{\partial}_b$ on Lipschitz boundaries. **2004e:32042**

Items with secondary classifications in 32W10

Anderson, John T. (*with* Wermer, John) A Cauchy-Green formula on the unit sphere in C^2. (English summary) **2004f:32004**
Peloso, Marco M. (*with* Ricci, Fulvio) Analysis of the Kohn Laplacian on quadratic CR manifolds. (English summary) **2004g:32030**
Ricci, Fulvio *see* **Peloso, Marco M., 2004g:32030**
Wermer, John *see* **Anderson, John T., 2004f:32004**

32W20 Complex Monge-Ampère operators

Błocki, Zbigniew Uniqueness and stability for the complex Monge-Ampère equation on compact Kähler manifolds. (English summary) **2004m:32073**
— Regularity of the degenerate Monge-Ampère equation on compact Kähler manifolds. (English summary) **2004b:32065**
— On the definition of the Monge-Ampère operator in $\mathbb{C}^2$. (English summary) **2004m:32074**
Czyż, Rafał Some global solutions of the complex Monge-Ampère equation. (English summary) **2004a:32061**
Duchamp, Tom (*with* Kalka, Morris) Singular Monge-Ampère foliations. (English summary) **2004d:32054**
Kalka, Morris *see* **Duchamp, Tom, 2004d:32054**
Kołodziej, Sławomir A regularity theorem for the complex Monge-Ampère equation in $\mathbb{CP}^n$. (English summary) **2004e:32043**
— The Monge-Ampère equation on compact Kähler manifolds. (English summary) **2004i:32062**

Items with secondary classifications in 32W20

Calabi, Eugenio (*with* Chen, Xiuxiong) The space of Kähler metrics. II. (English summary) **2004i:32039**
Cegrell, Urban (*with* Zeriahi, Ahmed) Subextension of plurisubharmonic functions with bounded Monge-Ampère mass. (English and French summaries) **2004a:32052**
Chen, Xiuxiong *see* **Calabi, Eugenio, 2004i:32039**
Rashkovskiĭ, A. Yu. Total masses of mixed Monge-Ampère currents. **2004b:32056**

Wang, An (*with* Yin, Wei Ping) The Einstein-Kähler metrics on Hua domain. (English summary) **2004i:32041**
Yin, Wei Ping *see* **Wang, An**, **2004i:32041**
Zeriahi, Ahmed *see* **Cegrell, Urban**, **2004a:32052**

32W30 Heat kernels in several complex variables

Alesker, Semyon Quaternionic Monge-Ampère equations. (English summary) **2004d:32055**
Mabuchi, Toshiki Heat kernel estimates and the Green functions on multiplier Hermitian manifolds. (English summary) **2004b:32066**

32W50 Other partial differential equations of complex analysis

Hayashi, Yasuo On Hitotumatu's system. (English summary) **2004k:32063**
Jiménez Meana, Jorge Differential operators in analytic spaces. (Spanish. Spanish summary) **2004b:32067**
Li, Bao Qin (*with* Saleeby, Elias G.) Entire solutions of first-order partial differential equations. (English summary) **2004f:32055**
Saleeby, Elias G. *see* **Li, Bao Qin**, **2004f:32055**
Yakshina, A. S. On the integrodifferential operators of I. I. Bavrin and their application to the solution of functional equations. (Russian. Russian summary) **2004m:32075**

Items with secondary classifications in 32W50

Calvi, Jean-Paul *see* **Dinh Dũng et al.**
Dinh Dũng (*with* Calvi, Jean-Paul; Nguyên Tiên Trung) On polynomial projectors that preserve homogeneous partial differential equations. (English summary)
Gaussier, Hervé (*with* Merker, Joël) Symmetries of partial differential equations. (English summary) **2004c:32074**
Hamada, Yûsaku Problème de Cauchy analytique. I. (English and French summaries) [Analytic Cauchy problem. I] **2004j:35013**
Merker, Joël *see* **Gaussier, Hervé**, **2004c:32074**
Nguyên Tiên Trung *see* **Dinh Dũng et al.**
Ōuchi, Sunao Existence of solutions with asymptotic expansion of linear partial differential equations in the complex domain. (English summary) **2004m:35033**
Wagschal, Claude Ramification non abélienne. [Nonabelian ramification] (*see* **2004j:00035**)

32W99 None of the above, but in this section

Items with secondary classifications in 32W99

Yin, Cheng Yuan The best dominant of partial differential subordinates in several complex variables. (Chinese. English and Chinese summaries) **2004g:32004**

33–XX Special functions {For orthogonal functions, see 42Cxx; for aspects of combinatorics see 05Axx; for number-theoretic aspects see 11–XX; for representation theory see 22Exx.}

33–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Lozier, Daniel W. NIST Digital Library of Mathematical Functions. (English summary) **2004f:33001**

Meunier, Ludovic (*with* Salvy, Bruno) ESF: an automatically generated encyclopedia of special functions. (English summary) (*see* **2004j:68018**)

Miller, Bruce R. (*with* Youssef, Abdou) Technical aspects of the Digital Library of Mathematical Functions. (English summary) **2004e:33001**

Salvy, Bruno *see* **Meunier, Ludovic**, (**2004j:68018**)

Youssef, Abdou *see* **Miller, Bruce R.**, **2004e:33001**

33–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 33–01

Álvarez-Nodarse, Renato ★ Polinomios hipergeométricos clásicos y q-polinomios. (Spanish. English and Spanish summaries) [Classical hypergeometric polynomials and q-polynomials] **2004m:33012**

Frankel, N. E. *see* **Garoni, T. M.**, **2004d:33022**

Garoni, T. M. (*with* Frankel, N. E.) On the ubiquity of the Lévy integral—its relationship with the generalized Euler-Jacobi series and their asymptotics beyond all orders. (English summary) **2004d:33022**

Korenev, B. G. ★ Bessel functions and their applications. **2004c:33011**

Lay, Wolfgang *see* **Slavyanov, Sergei Yu.**, **2004e:33003**

Mladenov, Ivaïlo M. (*with* Oprea, John) The mylar balloon revisited. **2004k:33042**

Oprea, John *see* **Mladenov, Ivaïlo M.**, **2004k:33042**

(Pankrat'ev, E. V.) *see* **Korenev, B. G.**, **2004c:33011**

(Seeger, Alfred) *see* **Slavyanov, Sergei Yu.**, **2004e:33003**

Slavyanov, Sergei Yu. (*with* Lay, Wolfgang) ★ Special functions. **2004e:33003**

33–02 Research exposition (monographs, survey articles)

Handscomb, D. C. *see* **Mason, John C.**, **2004h:33001**

Mason, John C. (*with* Handscomb, D. C.) ★ Chebyshev polynomials. (English summary) **2004h:33001**

(Rahman, Mizan) *see* **Suslov, Sergei K.**, **2004h:33002**

Suslov, Sergei K. ★ An introduction to basic Fourier series. **2004h:33002**

Items with secondary classifications in 33–02

Aleksić, Violeta N. *see* **Tričković, Slobodan B. et al.**

Andrews, George E. Bailey's transform, lemma, chains and tree. (English summary) **2004i:33027**

Ben Cheikh, Youssèf Decomposition of some special functions with respect to the cyclic group of order n and applications. (English summary) **2004g:33031**

Giordano, Carla (*with* Laforgia, Andrea) On the Bernstein-type inequalities for ultraspherical polynomials. (English summary) **2004f:33005**

Hussain, Md. Azhar Orthogonal polynomials and their applications. **2004a:33016**

Laforgia, Andrea *see* **Giordano, Carla**, **2004f:33005**

Maximon, Leonard C. The dilogarithm function for complex argument. (English summary) **2004h:33010**

Rakha, Medhat A. (*with* Siddiqi, Rafat N.) q-series and their applications in computers and number theory. (English summary)
— *see also* **Siddiqi, Rafat N.**, **2004a:33033**

Siddiqi, Rafat N. (*with* Rakha, Medhat A.) q-beta and elliptic type integrals. (English summary) **2004a:33033**
— *see also* **Rakha, Medhat A.**

Stanković, Miomir S. *see* **Tričković, Slobodan B. et al.**

Tričković, Slobodan B. (*with* Stanković, Miomir S.; Vidanović, Mirjana V.; Aleksić, Violeta N.) Integral transforms and summation of some Schlömilch series. (English summary)

Vidanović, Mirjana V. *see* **Tričković, Slobodan B. et al.**

Waldschmidt, Michel Multiple polylogarithms: an introduction. (English summary) **2004d:33003**

33–03 Historical (must also be assigned at least one classification number from Section 01)

Mainardi, Francesco (*with* Pagnini, Gianni) Salvatore Pincherle: the pioneer of the Mellin-Barnes integrals. (English summary) **2004g:33001**

Pagnini, Gianni *see* **Mainardi, Francesco**, **2004g:33001**

(Pincherle, Salvatore) *see* **Mainardi, Francesco**, **2004g:33001**

Items with secondary classifications in 33–03

(Bierens de Haan, David) *see* **van Ommen, Kasper**

Bos, Henk *see* **van Ommen, Kasper**

Craik, Alex D. D. The logarithmic tables of Edward Sang and his daughters. (English and French summaries) **2004b:01021**

(Elbert, Árpád) *see* **Laforgia, Andrea et al.**, **2004e:01048**

Laforgia, Andrea (*with* Muldoon, Martin E.; Siafarikas, Panayiotis D.) Árpád Elbert, 1939–2001: a memorial tribute. **2004e:01048**

Muldoon, Martin E. *see* **Laforgia, Andrea et al.**, **2004e:01048**

van Ommen, Kasper (*with* Bos, Henk) The bibliotheca mathematica of Bierens de Haan. (Dutch. Dutch summary)

Siafarikas, Panayiotis D. *see* **Laforgia, Andrea et al.**, **2004e:01048**

Ullrich, Peter[1] Die Weierstraßschen "analytischen Gebilde": Alternativen zu Riemanns "Flächen" und Vorboten der komplexen Räume. (English summary) [The Weierstrass "analytic configurations": alternatives to Riemann's "surfaces" and forerunners of complex spaces] **2004d:01019**

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Biography:
Bierens de Haan, David *see* **van Ommen, Kasper**

Obituary:
Elbert, Árpád *see* **Laforgia, Andrea et al.**, **2004e:01048**

33–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 33–04

Abbott, P. C. *see* **Falloon, P. E. et al.**, **2004i:33035**

Falloon, P. E. (*with* Abbott, P. C.; Wang, Jingbo[2]) Theory and computation of spheroidal wavefunctions. (English summary) **2004i:33035**

Wang, Jingbo[2] *see* **Falloon, P. E. et al.**, **2004i:33035**

33–06 Proceedings, conferences, collections, etc.

(Bustoz, Joaquin) *see* **Special functions 2000: current perspective and future directions**, **2004d:33001**

(Elbert, Árpád) *see* **Proceedings: Symposium on Orthogonal Polynomials, Special Functions and their Applications**, **2004c:33001**

(Ismail, Mourad E. H.) *see* **Special functions 2000: current perspective and future directions**, **2004d:33001**

(Jagannathan, Ramaswamy) *see* **Proceedings: Conference on Special Functions and their Applications**

(Kanemitsu, Shigeru) *see* **Proceedings: Conference on Special Functions and their Applications**

(Koelink, H. Tjerk) *see* **Orthogonal polynomials and special functions**, **2004f:33002**

(Laforgia, Andrea) *see* **Proceedings: Symposium on Orthogonal Polynomials, Special Functions and their Applications**, **2004c:33001**

(Ricci, Paolo Emilio) *see* **Proceedings: Symposium on Orthogonal Polynomials, Special Functions and their Applications**, **2004c:33001**

(Srinivasa Rao, Killampalli) *see* **Proceedings: Conference on Special Functions and their Applications**

(Suslov, Sergei K.) *see* **Special functions 2000: current perspective and future directions**, **2004d:33001**

(Van Assche, Walter) *see* **Orthogonal polynomials and special functions**, **2004f:33002** *and* **Proceedings: Conference on Special Functions and their Applications**

(Vanden Berghe, Guido) *see* **Proceedings: Conference on Special Functions and their Applications**

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Chennai ★ Proceedings of the International Conference on Special Functions and their Applications.

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Lecture Notes in Mathematics ★ Orthogonal polynomials and special functions. **2004f:33002**

Leuven ★ Orthogonal polynomials and special functions. **2004f:33002**

Memorial Issue:
Elbert, Árpád ★ Proceedings of the Sixth International Symposium on Orthogonal Polynomials, Special Functions and their Applications. **2004c:33001**

Orthogonal polynomials and special functions ★ Orthogonal polynomials and special functions. **2004f:33002**

Proceedings:
Conference on Special Functions and their Applications ★ Proceedings of the International Conference on Special Functions and their Applications.
Symposium on Orthogonal Polynomials, Special Functions and their Applications ★ Proceedings of the Sixth International Symposium on Orthogonal Polynomials, Special Functions and their Applications. **2004c:33001**

Rome ★ Proceedings of the Sixth International Symposium on Orthogonal Polynomials, Special Functions and their Applications. **2004c:33001**

Special functions 2000: current perspective and future directions ★ Special functions 2000: current perspective and future directions. **2004d:33001**

Tempe, AZ ★ Special functions 2000: current perspective and future directions. **2004d:33001**

Items with secondary classifications in 33–06

(Dattoli, Giuseppe) *see* **Advanced special functions and related topics in differential equations**

(Ricci, Paolo Emilio) *see* **Advanced special functions and related topics in differential equations**

(Srivastava, Hari M.) *see* **Advanced special functions and related topics in differential equations**

Items listed otherwise than by author

Advanced special functions and related topics in differential equations ★ Advanced special functions and related topics in differential equations.

Melfi ★ Advanced special functions and related topics in differential equations.

School:
Advanced Topics in Mathematics and Physics ★ Advanced special functions and related topics in differential equations.

33Bxx Elementary classical functions

33B10 Exponential and trigonometric functions

Adamson, Gary W. *see* **Kappraff, Jay**
Al-Sirehy, Fatma (*with* Fisher, Brian) On the sine integral. (English summary) **2004m:33001**
— (*with* Fisher, Brian) The sine integral and the neutrix convolution product. (English summary) **2004f:33003**
— *see also* **Fisher, Brian, 2004g:33003**
Chen, Chao-Ping (*with* Qi, Feng) A double inequality for remainder of power series of tangent function. (English summary)
Chu, Wen-Chang Summations on trigonometric functions. (English summary) **2004h:33003**
Dattoli, Giuseppe (*with* Ricci, Paolo Emilio) Laguerre-type exponentials, and the relevant L-circular and L-hyperbolic functions. (English summary) **2004k:33001**
Fisher, Brian (*with* Yakubovich, Semën B.; Telci, Mustafa) Results on the sine integral and the neutrix convolution. (English and Serbo-Croatian summaries) **2004g:33002**
— (*with* Al-Sirehy, Fatma) The cosine integral and the neutrix convolution product. (English summary) **2004g:33003**
— (*with* Yakubovich, Semën B.; Telci, Mustafa) Convolutions and neutrix convolution in connection with the incomplete gamma function. (English and Serbo-Croatian summaries) **2004a:33001**
— *see also* **Al-Sirehy, Fatma, 2004f:33003**; **2004m:33001** *and* **Kılıçman, Adem, 2004h:33004**
Haidar, Nassar H. S. A rational triplic form for the exponential. (English summary) **2004a:33002**
Kappraff, Jay (*with* Adamson, Gary W.) The relationship of the cotangent function to special relativity theory, silver means, p-cycles, and chaos theory. (English summary)
Kılıçman, Adem On the Fresnel sine integral and the convolution. (English summary) **2004i:33001**
— (*with* Fisher, Brian) On the Fresnel integrals and the convolution. (English summary) **2004h:33004**
Neamţu, Nicolae N. Existence and uniqueness of the trigonometric functions. (English summary)
Qi, Feng *see* **Chen, Chao-Ping**
Ricci, Paolo Emilio *see* **Dattoli, Giuseppe, 2004k:33001**
Takano, Katsuo On certain trigonometric sums. (English summary) **2004c:33002**
Telci, Mustafa *see* **Fisher, Brian et al., 2004a:33001** *and* **2004g:33002**
Yakubovich, Semën B. *see* **Fisher, Brian et al., 2004a:33001** *and* **2004g:33002**

Items with secondary classifications in 33B10

Bradford, Russell (*with* Davenport, James H.) Towards better simplification of elementary functions. (English summary) (*see* **2004j:68017**)
Choi, Junesang (*with* Lee, Jungseob; Srivastava, Hari M.) A generalization of Wilf's formula. (English summary) **2004e:11096**
Craik, Alex D. D. The logarithmic tables of Edward Sang and his daughters. (English and French summaries) **2004b:01021**
Davenport, James H. *see* **Bradford, Russell**, (**2004j:68017**)
Fukuhara, Shinji New trigonometric identities and generalized Dedekind sums. (English summary) **2004a:11033**
Guo, Bai-Ni (*with* Li, Wei; Qi, Feng) Proofs of Wilker's inequalities involving trigonometric functions. (English summary) (*see* **2004j:00017**)
Ismail, Mourad E. H. (*with* Zayed, Ahmed I.) A q-analogue of the Whittaker-Shannon-Kotel′nikov sampling theorem. (English summary) **2004e:33013**
Komatsu, Takao[2] Simple continued fraction expansions of some values of certain hypergeometric functions. (English summary) **2004e:11007**
Lee, Jungseob *see* **Choi, Junesang et al., 2004e:11096**
Li, Wei *see* **Guo, Bai-Ni et al.**, (**2004j:00017**)
Nishimoto, Katsuyuki N-fractional calculus of the power and logarithmic functions and some identities (continue). (English summary) **2004c:26008**
— Presentations for $\log q$ $(2 \leq q \in \mathbf{Z}^+)$ (continue). (English summary)
Pospíšil, Zdeněk Hyperbolic sine and cosine functions on measure chains. (English summary) **2004a:26002**
Qi, Feng *see* **Guo, Bai-Ni et al.**, (**2004j:00017**)
Rechkoski, N. (*with* Rechkoski, Vasko) Two examples of analytic representation of distributions. (English and Macedonian summaries) **2004m:46092**
Rechkoski, Vasko *see* **Rechkoski, N., 2004m:46092**
Ruijsenaars, S. N. M. Special functions defined by analytic difference equations. (English summary) **2004h:39051**
Schleicher, Dierk (*with* Zimmer, Johannes) Periodic points and dynamic rays of exponential maps. (English summary) **2004e:37068**
Srivastava, Hari M. *see* **Choi, Junesang et al., 2004e:11096**
Yudin, Vladimir Aleksandrovich On positive values of spherical harmonics and trigonometric polynomials. (Russian)
Zayed, Ahmed I. *see* **Ismail, Mourad E. H., 2004e:33013**
Zimmer, Johannes *see* **Schleicher, Dierk, 2004e:37068**

33B15 Gamma, beta and polygamma functions

Alzer, Horst Inequalities for the beta function of n variables. (English summary) **2004c:33003**
— On Ramanujan's double inequality for the gamma function. (English summary) **2004g:33004**
— On Gautschi's harmonic mean inequality for the gamma function. (English summary) **2004h:33005**
— (*with* Ruscheweyh, Stephan) A subadditive property of the gamma function. (English summary) **2004i:33002**
— Some beta-function inequalities. (English summary) **2004h:33006**
Banerji, P. K. (*with* Goyal, Som Prakash; Deroa, Yogendra) Integrals and partial derivatives of certain Dirichlet average. (English summary)
Berg, Christian (*with* Pedersen. Henrik L.) Pick functions related to the gamma function. (English summary) **2004h:33007**
Boros, George (*with* Espinosa, Olivier; Moll, Victor H.) On some families of integrals solvable in terms of polygamma and negapolygamma functions. (English summary) **2004f:33004**
Bracken, Paul Properties of certain sequences related to Stirling's approximation for the gamma function. (English summary) **2004d:33002**
Bühring, Wolfgang Asymptotic expansions for ratios of products of gamma functions. (English summary) **2004e:33002**
Cai, Tao (*with* Xu, Tian-zhou) Gaussian functions, Γ-functions and wavelets. (English summary)
Chen, Chao-Ping (*with* Qi, Feng) Monotonicity results for the gamma function. (English summary) **2004h:33008**
Deroa, Yogendra *see* **Banerji, P. K. et al.**
Espinosa, Olivier (*with* Moll, Victor H.) A generalized polygamma function. (English summary) **2004m:33002**
— *see also* **Boros, George et al., 2004f:33004**
(Gautschi, Walter) *see* **Alzer, Horst, 2004h:33005**
Giordano, Carla (*with* Laforgia, Andrea) On the Bernstein-type inequalities for ultraspherical polynomials. (English summary) **2004f:33005**
Goyal, Som Prakash *see* **Banerji, P. K. et al.**
Grigelionis, Bronius On the self-decomposability of Euler's gamma function. (Russian. English, Russian and Lithuanian summaries) **2004m:33003**
Hsieh, Tsai-Ming *see* **Lin, Shy-Der et al., 2004k:33002**
Koyama, Shin-Ya (*with* Kurokawa, Nobushige) Kummer's formula for multiple gamma functions. (English summary) **2004a:33003**
Kurokawa, Nobushige *see* **Koyama, Shin-Ya, 2004a:33003**
Laforgia, Andrea *see* **Giordano, Carla, 2004f:33005**
Liao, Liangwen (*with* Yang, Chung-Chun) On some new properties of the gamma function and the Riemann zeta function. (English summary) **2004g:33005**
Lin, Shy-Der (*with* Hsieh, Tsai-Ming; Srivastava, Hari M.) Some families of multiple infinite sums associated with the digamma and related functions. (English summary) **2004k:33002**
Lorch, Lee Comparison of a pair of upper bounds for a ratio of gamma functions. (English summary) **2004i:33003**
Merkle, Milan Conditions for convexity of a derivative and applications to the gamma and digamma function. (English summary)
Mimachi, Katsuhisa (*with* Yoshida, Masaaki) The reciprocity relation of the Selberg function. (English summary) **2004k:33003**
Moll, Victor H. *see* **Boros, George et al., 2004f:33004** *and* **Espinosa, Olivier, 2004m:33002**
Pedersen, Henrik L. *see* **Berg, Christian, 2004h:33007**
Qi, Feng *see* **Chen, Chao-Ping, 2004h:33008**
Ruscheweyh, Stephan *see* **Alzer, Horst, 2004i:33002**
Srivastava, Hari M. *see* **Lin, Shy-Der et al., 2004k:33002**
Vogt, Hendrik (*with* Voigt, Jürgen) A monotonicity property of the Γ-function. (English summary) **2004c:33004**
Voigt, Jürgen *see* **Vogt, Hendrik, 2004c:33004**
Xu, Tian-zhou *see* **Cai, Tao**
Yang, Chung-Chun *see* **Liao, Liangwen, 2004g:33005**
Yoshida, Masaaki *see* **Mimachi, Katsuhisa, 2004k:33003**

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Abel, Ulrich (*with* Ivan, Mircea) Asymptotic approximation of functions and their derivatives by Müller's gamma operators. (English summary) **2004b:41046**
Al-Saqabi, B. N. (*with* Kalla, Shyam L.; Vũ Kim Tuấn) Unified probability density function involving a confluent hypergeometric function of two variables. (English summary) **2004h:62020**
Chauhan, Anu Rekha *see* **Saxena, Ram Kishore et al.**
Ferreira, Chelo A note on the error bound for the remainder of an asymptotic expansion of the double gamma function.
Gronau, Detlef (*with* Matkowski, Janusz) Another characterization of the gamma function. (English summary) **2004e:39031**
Guo, Bai-Ni (*with* Qi, Feng) Inequalities and monotonicity for the ratio of gamma functions. (English summary) **2004c:26033**
— *see also* **Qi, Feng, 2004j:26051**
Hashimoto, Mitsuyasu (*with* Kanemitsu, Shigeru; Tanigawa, Yoshio; Yoshimoto, Masami; Zhang, Wen Peng) On some slowly convergent series involving the Hurwitz zeta-function. (English summary) **2004k:11144**
Ivan, Mircea *see* **Abel, Ulrich, 2004b:41046**
Kalla, Shyam L. *see* **Al-Saqabi, B. N. et al., 2004h:62020**
Kanemitsu, Shigeru *see* **Hashimoto, Mitsuyasu et al., 2004k:11144**
Kurokawa, Nobushige (*with* Wakayama, Masato) Absolute tensor products. **2004m:11139**
Lin, Shy-Der (*with* Srivastava, Hari M.; Wang, Pin-Yu) Some families of series and integrals associated with the digamma and zeta functions. (English summary) **2004f:11092**
Matkowski, Janusz *see* **Gronau, Detlef, 2004e:39031**
Mishra, Akshaya Kumar *see* **Srivastava, Hari M., 2004h:26011**
Nishimoto, Katsuyuki N-fractional calculus of the function $\log(z - c)$ and beta functions. (English summary)
Olteanu, Octav Some applications of elementary analysis to algebra and arithmetics. (English and Romanian summaries)
Pedersen, Henrik L. The double gamma function and related Pick functions. (English summary) **2004f:30020**
Qi, Feng (*with* Guo, Bai-Ni) Monotonicity of sequences involving geometric means of positive sequences. (English summary) **2004j:26051**

— *see also* **Guo, Bai-Ni**, **2004c:26033**
Ram, Jeta *see* **Saxena, Ram Kishore et al.**
Saxena, Ram Kishore (*with* Ram, Jeta; Chauhan, Anu Rekha) A unified form of generalized gamma-type distribution. (English summary)
Srivastava, Hari M. (*with* Mishra, Akshaya Kumar) A fractional differintegral operator and its applications to a nested class of multivalent functions with negative coefficients. (English summary) **2004h:26011**
— Fractional calculus and its applications. (English summary) **2004b:26012**
— *see also* **Lin, Shy-Der et al.**, **2004f:11092**
Takano, Katsuo On infinite divisibility of normed product of Cauchy densities. (English summary) **2004d:60038**
Tanigawa, Yoshio *see* **Hashimoto, Mitsuyasu et al.**, **2004k:11144**
Vũ Kim Tuấn *see* **Al-Saqabi, B. N. et al.**, **2004h:62020**
Wakayama, Masato *see* **Kurokawa, Nobushige**, **2004m:11139**
Wang, Pin-Yu *see* **Lin, Shy-Der et al.**, **2004f:11092**
Yakubovich, Semën B. On the integral transformation associated with the product of gamma-functions. (English summary) **2004j:44006**
Yoshimoto, Masami *see* **Hashimoto, Mitsuyasu et al.**, **2004k:11144**
Zhang, Wen Peng *see* **Hashimoto, Mitsuyasu et al.**, **2004k:11144**

33B20 Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)

Alzer, Horst Functional inequalities for the error function. (English summary) **2004g:33006**
Fisher, Brian (*with* Jolevska-Tuneska, Biljana; Kılıçman, Adem) On defining the incomplete gamma function. (English summary) **2004g:33007**
— (*with* Jolevska-Tuneska, Biljana; Takači, Arpad) On the incomplete gamma function and the neutrix convolution. (English summary) **2004k:33004**
Gautschi, Walter (*with* Harris, F. E.; Temme, Nico M.) Expansions of the exponential integral in incomplete gamma functions. (English summary) **2004i:33004**
Harris, F. E. *see* **Gautschi, Walter et al.**, **2004i:33004**
Jódar, Lucas *see* **Sastre, J.**
Jolevska-Tuneska, Biljana *see* **Fisher, Brian et al.**, **2004g:33007** *and* **2004k:33004**
Kılıçman, Adem *see* **Fisher, Brian et al.**, **2004g:33007**
Paris, R. B. A uniform asymptotic expansion for the incomplete gamma function. (English summary) **2004a:33004**
Sastre, J. (*with* Jódar, Lucas) Asymptotics of the modified Bessel and the incomplete gamma matrix functions. (English summary)
Shepherd, S. J. *see* **Van Eetvelt, P. W. J.**, **2004m:33004**
Takači, Arpad *see* **Fisher, Brian et al.**, **2004k:33004**
Temme, Nico M. *see* **Gautschi, Walter et al.**, **2004i:33004**
Van Eetvelt, P. W. J. (*with* Shepherd, S. J.) Accurate, computable approximations to the error function. (English summary) **2004m:33004**

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Fisher, Brian (*with* Kananthai, Amnuay; Sritanratana, G.; Nonlaopon, K.) Convolutions and neutrix convolutions involving the incomplete gamma function. (English summary) **2004h:46036**
Hassani, Mehdi Derangements and applications. (English summary) **2004b:05014**
Kananthai, Amnuay *see* **Fisher, Brian et al.**, **2004h:46036**
Morosi, Carlo (*with* Pizzocchero, Livio) On the expansion of the Kummer function in terms of incomplete gamma functions. (English summary) **2004m:33009**
Nonlaopon, K. *see* **Fisher, Brian et al.**, **2004h:46036**
Pizzocchero, Livio *see* **Morosi, Carlo**, **2004m:33009**
Qi, Feng The extended mean values: definition, properties, monotonicities, comparison, convexities, generalizations, and applications. (English summary)
Sritanratana, G. *see* **Fisher, Brian et al.**, **2004h:46036**

33B30 Higher logarithm functions

Batir, Necdet Integral representations of some series involving $\binom{2k}{k}^{-1}k^{-n}$ and some related series. (English summary) **2004h:33009**
Igarashi, Masataka Generalized polylogarithms of lower degrees. (English summary)
Maximon, Leonard C. The dilogarithm function for complex argument. (English summary) **2004h:33010**
Moch, Sven (*with* Uwer, Peter; Weinzierl, Stefan) Nested sums, expansion of transcendental functions, and multiscale multiloop integrals. (English summary) **2004c:33005**
Uwer, Peter *see* **Moch, Sven et al.**, **2004c:33005**
Waldschmidt, Michel Multiple polylogarithms: an introduction. (English summary) **2004d:33003**
Weinzierl, Stefan *see* **Moch, Sven et al.**, **2004c:33005**

Items with secondary classifications in 33B30

Cartier, Pierre Fonctions polylogarithmes, nombres polyzêtas et groupes pro-unipotents. (French summary) [Polylogarithm functions, polyzeta numbers and pro-unipotent groups] **2004i:19005**
Gangl, Herbert Functional equations for higher logarithms. (English summary) **2004m:11105**
Grozin, Andrey Lectures on multiloop calculations. (English summary) **2004k:81227**
Hikami, Kazuhiro Hyperbolic structure arising from a knot invariant. II. Completeness. (English summary) **2004b:57019**
Jang, Lee-Chae (*with* Kim, Taekyun; Lee, Deok-Ho; Park, Dal-Won) An application of polylogarithms in the analogs of Genocchi numbers. (English summary)
Kim, Taekyun *see* **Jang, Lee-Chae et al.**
Lee, Deok-Ho *see* **Jang, Lee-Chae et al.**
Mandai, Takeshi (*with* Tahara, Hidetoshi) Structure of solutions to Fuchsian systems of partial differential equations. (English summary) **2004m:35009**
Murakami, Hitoshi (*with* Murakami, Jun; Okamoto, Miyuki; Takata, Toshie; Yokota, Yoshiyuki) Kashaev's conjecture and the Chern-Simons invariants of knots and links. (English summary) **2004a:57016**
Murakami, Jun *see* **Murakami, Hitoshi et al.**, **2004a:57016**
Nishimoto, Katsuyuki N-fractional calculus of the power and logarithmic functions and some identities (continue). (English summary) **2004c:26008**
Okamoto, Miyuki *see* **Murakami, Hitoshi et al.**, **2004a:57016**
Panzone, Pablo A simple proof of the irrationality of the trilog. (English summary) **2004b:11101**
Park, Dal-Won *see* **Jang, Lee-Chae et al.**
de Prunelé, E. Conditions for bound states in a periodic linear chain, and the spectra of a class of Toeplitz operators in terms of polylogarithm functions. (English summary) **2004h:81080**
Tahara, Hidetoshi *see* **Mandai, Takeshi**, **2004m:35009**
Takata, Toshie *see* **Murakami, Hitoshi et al.**, **2004a:57016**
Ulanskiĭ, E. A. Identities for generalized polylogarithms. (Russian. Russian summary) **2004f:11065**
Yokota, Yoshiyuki *see* **Murakami, Hitoshi et al.**, **2004a:57016**

33B99 None of the above, but in this section

Items with secondary classifications in 33B99

Nishimoto, Katsuyuki Presentations for $\log q (2 \le q \in \mathbf{Z}^+)$. (English summary)

33Cxx Hypergeometric functions

Lay, Wolfgang *see* **Slavyanov, Sergei Yu.**, **2004e:33003**
(Seeger, Alfred) *see* **Slavyanov, Sergei Yu.**, **2004e:33003**
Slavyanov, Sergei Yu. (*with* Lay, Wolfgang) ★ Special functions. **2004e:33003**

33C05 Classical hypergeometric functions, ${}_2F_1$

Andreev, F. V. (*with* Kitaev, A. V.) Some examples of $RS_3^2(3)$-transformations of ranks 5 and 6 as the higher order transformations for the hypergeometric function. (English summary) **2004k:33005**
Babich, V. M. To the problem on the asymptotics with respect to the indices of the associated Legendre function. (English summary) **2004c:33006**
Banerji, P. K. (*with* Mohsen, F. B. F.) Application of fractional integral operators in obtaining bilinear and bilateral generating functions. (English summary)
Barnard, Roger W. (*with* Richards, Kendall C.) A note on the hypergeometric mean value. (English summary) **2004b:33001**
Begehr, Heinrich G. W. (*with* Usmanov, Z. D.) On asymptotics of solutions to the hypergeometric equation. (English summary) **2004i:33005**
Berndt, Bruce C. Flowers which we cannot yet see growing in Ramanujan's garden of hypergeometric series, elliptic functions, and q's. (English summary) **2004k:33006**
Buschman, R. G. Recurrences for hypergeometric functions. (English summary)
Chenaghlou, A. *see* **Fakhri, Hossein**, **2004m:33005**
Cheon, Gi-Sang *see* **El-Mikkawy, Moawwad E. A.**, **2004i:33006**
Dattoli, Giuseppe Comments on the theory of Hermite-Bessel functions. (English summary)
De Meyer, Hans E. *see* **Vanden Berghe, Guido**, **2004k:33009**
El-Mikkawy, Moawwad E. A. (*with* Cheon, Gi-Sang) A connection between a generalized Pascal matrix and the hypergeometric function. (English summary) **2004i:33006**
Fakhri, Hossein (*with* Chenaghlou, A.) Shape invariance and laddering equations for the associated hypergeometric functions. (English summary) **2004m:33005**
Fujii, Michihiko (*with* Ochiai, Hiroyuki) An algorithm for solving linear ordinary differential equations of Fuchsian type with three singular points. (English summary) **2004m:33006**
Ganesan, M. S. *see* **Ramamurthy, T. G.**
Gupta, H. C. Summing a class of ${}_2F_1$'s.
Hunter, M. N. *see* **Love, E. R.**, **2004i:33007**
van der Jeugt, J. The invariance groups of certain single and double hypergeometric series. (English summary) **2004b:33002**
Joshi, C. M. (*with* Vyas, Yashoverdhan) Extensions of certain classical integrals of Erdélyi for Gauss hypergeometric functions. (English summary) **2004k:33007**
Khusnutdinov, Nail R. On the uniform asymptotic expansion of the Legendre functions. (English summary) **2004c:33007**
Kim, Seon-Hong The analogues of some binomial coefficients. (English summary) **2004m:33007**
Kitaev, A. V. *see* **Andreev, F. V.**, **2004k:33005**
Küstner, Reinhold Mapping properties of hypergeometric functions and convolutions of starlike or convex functions of order α. (English summary) **2004k:33008**
Love, E. R. (*with* Hunter, M. N.) Expansions in series of Legendre functions. **2004i:33007**
Malits, P. On Legendre functions of imaginary degree and associated integral transforms. (English summary) **2004g:33008**
Miller, Allen R. A transformation formula for the generalized hypergeometric series ${}_4F_3(1)$. (English summary) **2004m:33008**
Mohsen, F. B. F. *see* **Banerji, P. K.**
Ochiai, Hiroyuki *see* **Fujii, Michihiko**, **2004m:33006**
Olde Daalhuis, Adri B. Uniform asymptotic expansions for hypergeometric functions with large parameters. I. (English summary) **2004a:33005**
— Uniform asymptotic expansions for hypergeometric functions with large parameters. II. (English summary) **2004a:33006**
Ramamurthy, T. G. (*with* Ganesan, M. S.) On a derivation of the differential equation for some hypergeometric functions.
Richards, Kendall C. *see* **Barnard, Roger W.**, **2004b:33001**
Spiridonov, V. P. Modularity and complete ellipticity of some multiple series of hypergeometric type. (Russian. Russian summary) **2004i:33008**

Temme, Nico M. Large parameter cases of the Gauss hypergeometric function. (English summary) **2004f:33006**
Usmanov, Z. D. *see* **Begehr, Heinrich G. W., 2004i:33005**
Vanden Berghe, Guido (*with* De Meyer, Hans E.) A special identity between three ${}_2F_1(a,b;c;4)$ hypergeometric series. (English summary) **2004k:33009**
Vidūnas, Raimundas Contiguous relations of hypergeometric series. (English summary) **2004f:33007**
Vyas, Yashoverdhan *see* **Joshi, C. M., 2004k:33007**

Items with secondary classifications in 33C05

Adiga, Chandrashekar (*with* Kim, Taekyun; Mahadeva Naika, M. S.) Modular equations in the theory of signature 3 and P-Q identities. (English summary) **2004c:11049**
Altayeb, Mahmoud A. A. *see* **Sethi, P. L., 2004k:26012**
Aqlan, Essam (*with* Kulkarni, Shripad Rajaram) On generalisation of starlike and convexity properties for hypergeometric functions. (English summary)
Archinard, Natália Hypergeometric abelian varieties. (English summary) **2004i:11056**
— Exceptional sets of hypergeometric series. (English summary) **2004j:11079**
Chan, Heng Huat (*with* Liu, Zhi-Guo) Analogues of Jacobi's inversion formula for the incomplete elliptic integral of the first kind. (English summary) **2004b:33027**
Eelbode, David Solutions for the hyperbolic Dirac equation on $\mathbb{R}_{1,m}$. (English summary) **2004c:30080**
— Fundamental solutions for first order Spin$(1,m)$-invariant differential operators. (English summary) **2004m:30071**
El-Sayed, Ahmed M. A. *see* **Rida, Saad Zagloul, 2004h:26010**
French, David R. *see* **Larcombe, Peter J. et al., 2004k:05026**
Gessel, Ira M. *see* **Larcombe, Peter J. et al., 2004k:05026**
Gil, Amparo (*with* Segura, Javier) Computing the zeros and turning points of solutions of second order homogeneous linear ODEs. (English summary) **2004h:65044**
Guo, Victor J. W. A simple proof of Dixon's identity. (English summary) **2004d:05015**
Gurappa, N. (*with* Panigrahi, Prasanta K.; Shreecharan, T.) A new perspective on single and multi-variate differential equations. (English summary) **2004k:34004**
Hall, Richard L. *see* **Saad, Nasser, 2004h:33012**
Hortaçsu, M. Explicit examples of conformal invariance. (English summary) **2004f:81201**
Ishikawa, Tsuneo On certain congruences for Fourier coefficients of classical cusp forms. **2004c:11060**
Jimenez, D. *see* **Reyes, Marco A. et al., 2004h:33021**
Kaneko, Masanobu (*with* Yoshida, Masaaki) The kappa function. (English summary) **2004k:30104**
Khan, Abdul Rahman *see* **Khan, Mumtaz Ahmad**
Khan, Mumtaz Ahmad (*with* Khan, Abdul Rahman) On triple transformations of certain hypergeometric functions. (English summary)
Kim, Taekyun *see* **Adiga, Chandrashekar et al., 2004c:11049**
Komatsu, Takao² Simple continued fraction expansions of some values of certain hypergeometric functions. (English summary) **2004e:11007**
Kulkarni, Shripad Rajaram *see* **Aqlan, Essam**
Larcombe, Peter J. (*with* French, David R.; Gessel, Ira M.) On the identity of von Szily: original derivation and a new proof. (English summary) **2004k:05026**
Liu, Zhi-Guo *see* **Chan, Heng Huat, 2004b:33027**
Mahadeva Naika, M. S. *see* **Adiga, Chandrashekar et al., 2004c:11049**
Neretin, Yurii A. The action of an overalgebra in the Plancherel decomposition and shift operators in an imaginary direction. (Russian. Russian summary) **2004a:22013**
Nesterenko, Yu. V. On the algebraic independence of numbers. (English summary) **2004d:11063**
Niukkanen, A. V. (*with* Paramonova, O. S.) Linear transformations and reduction formulas for the Gel′fand hypergeometric functions associated with the Grassmannians $G_{2,4}$ and $G_{3,6}$. (Russian. Russian summary) **2004c:33029**
Panigrahi, Prasanta K. *see* **Gurappa, N. et al., 2004k:34004**
Paramonova, O. S. *see* **Niukkanen, A. V., 2004c:33029**
Reyes, Marco A. (*with* Jimenez, D.; Rosu, Haret C.) One-parameter isospectral special functions. (English and Spanish summaries) **2004h:33021**
Rida, Saad Zagloul (*with* El-Sayed, Ahmed M. A.) Fractional calculus and generalized Rodrigues formula. (English summary) **2004h:26010**
Rosu, Haret C. *see* **Reyes, Marco A. et al., 2004h:33021**
Saad, Nasser (*with* Hall, Richard L.) Integrals containing confluent hypergeometric functions with applications to perturbed singular potentials. (English summary) **2004h:33012**
Segura, Javier *see* **Gil, Amparo, 2004h:65044**
Sethi, P. L. (*with* Altayeb, Mahmoud A. A.) Fractional integral operators involving Fox's H-function for real positive definite symmetric matrix. (English summary) **2004k:26012**
Shcherbak, I. G. (*with* Varchenko, A. N.) Critical points of functions, $\mathfrak{sl}_2$ representations, and Fuchsian differential equations with only univalued solutions. (English and Russian summaries) **2004m:34204**
Shreecharan, T. *see* **Gurappa, N. et al., 2004k:34004**
Srivastava, Hari M. Some integral representations for the Jacobi and related hypergeometric polynomials. (English summary) **2004j:33005**
— Fractional calculus and its applications. (English summary) **2004b:26012**
Takano, Katsuo On certain trigonometric sums. (English summary) **2004c:33002**
Todorov, Pavel G. Powers of the Pick function and applications. (English summary) **2004c:30003**
Varchenko, A. N. *see* **Shcherbak, I. G., 2004m:34204**
Weir, Rachel J. Zeros of extremal functions in weighted Bergman spaces. (English summary) **2004b:30017**
Yoshida, Masaaki *see* **Kaneko, Masanobu, 2004k:30104**

33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$

Abad, Julio (*with* Sesma, Javier) Asymptotic expansion of the quasiconfluent hypergeometric function. (English summary) **2004c:33008**
Agarwal, Preeti (*with* Singh, Peetam) A note on reciprocal power sums of zeros of Bessel functions. (English summary) **2004c:33009**
Aleksić, Violeta N. *see* **Tričković, Slobodan B. et al.**
Aleksis, V. N. *see* **Tričković, Slobodan B. et al., 2004c:33014**
Arrighini, G. P. (*with* Bruzzone, S.; Guidotti, C.) More on the Airy averaging method. (English summary)
Basu, D. K. *see* **Dube, P. P.**
Bender, Carl M. (*with* Brody, Dorje C.; Meister, Bernhard K.) On powers of Bessel functions. (English summary) **2004b:33003**
Berestovskiĭ, G. N. On a property of zeros of the Bessel function $J_0(\mu)$. (Russian)
Brody, Dorje C. *see* **Bender, Carl M. et al., 2004b:33003**
Brown, B. Malcolm (*with* Eastham, M. S. P.) The Hurwitz theorem for Bessel functions and antibound states in spectral theory. (English summary) **2004h:33011**
Bruzzone, S. *see* **Arrighini, G. P. et al.**
Butler, Ronald W. (*with* Wood, Andrew T. A.) Laplace approximation for Bessel functions of matrix argument. (English summary) **2004g:33009**
Cesarano, C. *see* **Dattoli, Giuseppe et al.**
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33C47 Other special orthogonal polynomials and functions

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33C60 Hypergeometric integrals and functions defined by them (E, G and H functions)

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33C65 Appell, Horn and Lauricella functions

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33C67 Hypergeometric functions associated with root systems

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33C70 Other hypergeometric functions and integrals in several variables

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33C75 Elliptic integrals as hypergeometric functions

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33C80 Connections with groups and algebras, and related topics

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33Dxx Basic hypergeometric functions

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33D45 Basic orthogonal polynomials and functions (Askey-Wilson polynomials, etc.)

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33Exx Other special functions

33E05 Elliptic functions and integrals

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33E10 Lamé, Mathieu, and spheroidal wave functions

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33E50 Special functions in characteristic p (gamma functions, etc.)

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33Fxx Computational aspects

33F05 Numerical approximation [see also 65D20]

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Morosi, Carlo (*with* Pizzocchero, Livio) On the expansion of the Kummer function in terms of incomplete gamma functions. (English summary) **2004m:33009**
Paris, R. B. A uniform asymptotic expansion for the incomplete gamma function. (English summary) **2004a:33004**
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Shepherd, S. J. *see* **Van Eetvelt, P. W. J., 2004m:33004**
Studden, William J. *see* **Dette, Holger, 2004g:42029**
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— *see also* **Gil, Amparo et al., 2004b:33004** *and* **2004f:33008**
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33F10 Symbolic computation (Gosper and Zeilberger algorithms, etc.) [see also 68W30]

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— (*with* Le, H. Q.) A criterion for the applicability of Zeilberger's algorithm to rational functions. (English summary) **2004h:33043**
— (*with* Petkovšek, Marko) Rational normal forms and minimal decompositions of hypergeometric terms. (English summary) **2004i:33037**
Davenport, James H. The geometry of $\mathbb{C}^n$ is important for the algebra of elementary functions. (English summary) **2004i:33038**
Gil, Amparo (*with* Segura, Javier) A combined symbolic and numerical algorithm for the computation of zeros of orthogonal polynomials and special functions. (English summary) **2004g:33042**
Guillera, Jesús Some binomial series obtained by the WZ-method. (English summary) **2004a:33039**
Huang, Yu-juan (*with* Wang, Tian Ming) Elimination in Weyl algebra and q-identities.
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Le, H. Q. A direct algorithm to construct the minimal Z-pairs for rational functions. (English summary) **2004e:33023**
— *see also* **Abramov, Sergei A., 2004h:33043**
Paule, Peter (*with* Schneider, Carsten) Computer proofs of a new family of harmonic number identities. (English summary) **2004f:33043**
Petkovšek, Marko *see* **Abramov, Sergei A., 2004i:33037** *and* **2004m:33034**
Riese, Axel qMultiSum—a package for proving q-hypergeometric multiple summation identities. (English summary) **2004h:33044**
Schneider, Carsten *see* **Paule, Peter, 2004f:33043**
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Tefera, Akalu MultInt, a MAPLE package for multiple integration by the WZ method. (English summary) **2004b:33030**
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Asai, Nobuhiro (*with* Kubo, Izumi; Kuo, Hui-Hsiung) Multiplicative renormalization and generating functions. I. (English summary) **2004a:33010**
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Chu, Wen-Chang Summations on trigonometric functions. (English summary) **2004h:33003**
Hassani, Mehdi Derangements and applications. (English summary) **2004b:05014**
Krattenthaler, Christian (*with* Rosengren, Hjalmar) On a hypergeometric identity of Gelfand, Graev and Retakh. (English summary) **2004k:33028**
Kubo, Izumi *see* **Asai, Nobuhiro et al., 2004a:33010**
Kuo, Hui-Hsiung *see* **Asai, Nobuhiro et al., 2004a:33010**
Le, Ha Simplification of definite sums of rational functions by creative symmetrizing method. (English summary) (*see* **2004j:68017**)
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Niukkanen, A. V. Quadratic transformations of hypergeometric series in several variables. (Russian. English and Russian summaries) **2004c:33015**
Paule, Peter (*with* Prodinger, Helmut) Fountains, histograms, and q-identities. (English summary) **2004h:33039**
Prodinger, Helmut *see* **Paule, Peter, 2004h:33039**
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Zeilberger, Doron Computerized deconstruction. (English summary) **2004d:11060**
— Liebe Opa Paul, ich bin auch ein experimental Scientist! (English. English summary) **2004g:00008**
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— A new elementary algorithm for proving q-hypergeometric identities. (English summary) **2004b:33023**
Zudilin, V. V. An Apéry-like difference equation for Catalan's constant. (English summary) **2004d:11125**

33F99 None of the above, but in this section

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Moll, Victor H. *see* **Boros, George, 2004c:33044**

34–XX Ordinary differential equations

34–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Polyanin, Andrei D. (*with* Zaitsev, Valentin F.) ★ Handbook of exact solutions for ordinary differential equations. **2004g:34001**
Zaitsev, Valentin F. *see* **Polyanin, Andrei D., 2004g:34001**

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Handbook:
Exact solutions for ordinary differential equations *see* **Polyanin, Andrei D., 2004g:34001**

Items with secondary classifications in 34–00

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Romanovskiĭ, V. G. *see* **Jarrah, Abdul Salam et al., 2004d:34065**

34–01 Instructional exposition (textbooks, tutorial papers, etc.)

Billingham, John *see* **King, Andrew C. et al., 2004d:34001**
Borisenko, S. D. *see* **Samoĭlenko, Anatoliĭ Mikhaĭlovich et al., 2004c:34001**
Cattani, Carlo *see* **Samoĭlenko, Anatoliĭ Mikhaĭlovich et al., 2004c:34001**
Choudhury, D. P. *see* **Rai, Bindhyachal et al., 2004b:34002**
Dragomir, Sever Silvestru ★ Some Gronwall type inequalities and applications. **2004h:34001**
Freedman, H. I. *see* **Rai, Bindhyachal et al., 2004b:34002**
King, Andrew C. (*with* Billingham, John; Otto, S. R.) ★ Differential equations. **2004d:34001**
Laine, Ilpo Introduction to local theory of complex differential equations. (English summary) **2004b:34001**
Liu, James Hetao ★ A first course in the qualitative theory of differential equations. **2004m:34001**
Matarazzo, G. *see* **Samoĭlenko, Anatoliĭ Mikhaĭlovich et al., 2004c:34001**
Nussbaum, Roger D. Limiting profiles for solutions of differential-delay equations. (English summary) **2004m:34002**
Otto, S. R. *see* **King, Andrew C. et al., 2004d:34001**
Rai, Bindhyachal (*with* Choudhury, D. P.; Freedman, H. I.) ★ A course in ordinary differential equations. (English summary) **2004b:34002**
Samoĭlenko, Anatoliĭ Mikhaĭlovich (*with* Borisenko, S. D.; Cattani, Carlo; Matarazzo, G.; Yasinskiĭ, V. V.) ★ Differential models. **2004c:34001**
Seifert, George Functional differential equations: an introduction. **2004a:34001**
Somasundaram, D. ★ Ordinary differential equations. (English summary) **2004b:34003**
Waltman, Paul ★ A second course in elementary differential equations. **2004m:34003**
Yasinskiĭ, V. V. *see* **Samoĭlenko, Anatoliĭ Mikhaĭlovich et al., 2004c:34001**

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Butcher, John C. ★ Numerical methods for ordinary differential equations. **2004e:65069**
Davis, Jon H. ★ Methods of applied mathematics with a MATLAB overview. **2004k:00002**
(Gloumov, V. I.) *see* **Neĭmark, Yu. I., 2004e:00006**
Jones, Douglas S. (*with* Sleeman, B. D.) ★ Differential equations and mathematical biology. **2004g:92003**
(Kogan, Mark M.) *see* **Neĭmark, Yu. I., 2004e:00006**
Layer, Edward ★ Modelling of simplified dynamical systems. **2004d:93001**
Mozo Fernández, Jorge ★ Desarrollos asintóticos y sumabilidad. (Spanish) [Asymptotic expansions and summability] **2004h:34181**
Neĭmark, Yu. I. ★ Mathematical models in natural science and engineering. **2004e:00006**
Sleeman, B. D. *see* **Jones, Douglas S., 2004g:92003**
Wiggins, Stephen ★ Introduction to applied nonlinear dynamical systems and chaos. **2004h:37002**
Zhang, Chuanyi ★ Almost periodic type functions and ergodicity. **2004k:34087**

34–02 Research exposition (monographs, survey articles)

Agarwal, Ravi P. (*with* O'Regan, Donal) ★ Singular differential and integral equations with applications. **2004h:34002**
Bartušek, Miroslav (*with* Došlá, Zuzana; Graef, John R.) ★ The nonlinear limit-point/limit-circle problem. **2004h:34003**
Bellman, Richard ★ Perturbation techniques in mathematics, engineering & physics.
Castillo, Oscar *see* **Melin, Patricia, 2004f:34002**
Došlá, Zuzana *see* **Bartušek, Miroslav et al., 2004h:34003**
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Kats, I. Ya. (*with* Martynyuk, A. A.) ★ Stability and stabilization of nonlinear systems with random structure. **2004b:34004**
Kiguradze, I. T. (*with* Půža, Bedřich) ★ Boundary value problems for systems of linear functional differential equations. **2004k:34001**
Lakshmikantham, V. (*with* Mohapatra, Ram Narayan) ★ Theory of fuzzy differential equations and inclusions. **2004m:34004**
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McLachlan, Robert I. (*with* Quispel, G. Reinout W.) Splitting methods. (English summary) **2004f:34001**
Melin, Patricia (*with* Castillo, Oscar) ★ Modelling, simulation and control of non-linear dynamical systems. **2004f:34002**
Mohapatra, Ram Narayan *see* **Lakshmikantham, V., 2004m:34004**
O'Regan, Donal *see* **Agarwal, Ravi P., 2004h:34002**
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Qian, Xiang Zheng *see* **Wang, Zhi Cheng[1] et al., 2004d:34002**
Quispel, G. Reinout W. *see* **McLachlan, Robert I., 2004f:34001**
Stavroulakis, Ioannis P. *see* **Wang, Zhi Cheng[1] et al., 2004d:34002**
Tabor, Jacek Differential equations in metric spaces. (English summary) **2004c:34002**
Wang, Zhi Cheng[1] (*with* Stavroulakis, Ioannis P.; Qian, Xiang Zheng) A survey on the oscillation of solutions of first order linear differential equations with deviating arguments. (English summary) **2004d:34002**

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Abou-Kandil, Hisham (*with* Freiling, Gerhard; Ionescu, Vlad; Jank, Gerhard) ★ Matrix Riccati equations. **2004g:93002**
Feng, Bei-Ye (*with* Hu, Rui) A survey on homoclinic and heteroclinic orbits. (English summary) **2004c:37042**
Freiling, Gerhard *see* **Abou-Kandil, Hisham et al., 2004g:93002**
Gutenbaum, Jakub ★ Modelowanie matematyczne systemów. (Polish) [Mathematical modeling of systems] **2004e:93008**
Hu, Rui *see* **Feng, Bei-Ye, 2004c:37042**
Iancu, Crăciun ★ Modelare matematică. Teme speciale. (Romanian) [Mathematical modelling. Special topics] **2004f:00008**
Ionescu, Vlad *see* **Abou-Kandil, Hisham et al., 2004g:93002**
Jank, Gerhard *see* **Abou-Kandil, Hisham et al., 2004g:93002**
Ladde, G. S. (*with* Sambandham, M.) ★ Stochastic versus deterministic systems of differential equations. **2004k:34112**
Lakshmikantham, V. (*with* Leela, S.) Advances in stability theory of Lyapunov: old and new. **2004c:34151**
Leela, S. *see* **Lakshmikantham, V., 2004c:34151**
Mureşan, Viorica ★ Functional-integral equations. **2004e:45001**
Sambandham, M. *see* **Ladde, G. S., 2004k:34112**
Sofroniou, Mark (*with* Spaletta, Giulia) Solving orthogonal matrix differential systems in Mathematica. (English summary) (*see* **2004j:00014**)
Spaletta, Giulia *see* **Sofroniou, Mark, (2004j:00014)**
Zhang, Chuanyi ★ Almost periodic type functions and ergodicity. **2004k:34087**

34–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 34–03

Andreev, A. F. (*with* Bibikov, Yu. N.) Research on the local qualitative theory of differential equations at the Chair of Differential Equations of St. Petersburg State University. (Russian. English and Russian summaries) **2004c:37003**
Archibald, Tom Differential equations: a historical overview to circa 1900. (*see* **2004h:01005**)
Bibikov, Yu. N. *see* **Andreev, A. F., 2004c:37003**
(Jahnke, Hans Niels) *see* **History of analysis, 2004h:01005**
Mainardi, Francesco (*with* Pagnini, Gianni) Salvatore Pincherle: the pioneer of the Mellin-Barnes integrals. (English summary) **2004g:33001**
Pagnini, Gianni *see* **Mainardi, Francesco, 2004g:33001**
Pilyugin, Sergei Yu. Research on the global qualitative theory of differential equations at the Chair of Differential Equations of St. Petersburg State University. (Russian. English and Russian summaries) **2004c:37004**
(Pincherle, Salvatore) *see* **Mainardi, Francesco, 2004g:33001**

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History of analysis ★ A history of analysis. **2004h:01005**

34–04 Explicit machine computation and programs (not the theory of computation or programming)

Cap, Ferdinand F. ★ Mathematical methods in physics and engineering with Mathematica. **2004h:34004**
Lee, Hyunjin[2] (*with* Schiesser, W. E.) ★ Ordinary and partial differential equation routines in C, C++, Fortran, Java®, Maple®, and MATLAB®. **2004j:34001**
Schiesser, W. E. *see* **Lee, Hyunjin[2], 2004j:34001**

Items with secondary classifications in 34–04

Castillo, Oscar *see* **Melin, Patricia, 2004f:34002**
Diele, Fasma (*with* Politi, T.; Sgura, I.) A Fortran90 routine for the solution of orthogonal differential problems. (English summary) (*see* **2004j:00014**)
Figueiredo, Annibal *see* **Rocha Filho, Tarcísio M. et al., 2004g:34089**
Gléria, Iram M. *see* **Rocha Filho, Tarcísio M. et al., 2004g:34089**
Hu, Hai Yan *see* **Wu, Shaobo, 2004j:34174a** *and* **Wang, Zai Hua, 2004j:34174b**
Jacquemard, Alain (*with* Teixeira, Marco Antonio) Computer analysis of periodic orbits of discontinuous vector fields. (English summary) **2004e:34072**
Melin, Patricia (*with* Castillo, Oscar) ★ Modelling, simulation and control of non-linear dynamical systems. **2004f:34002**
Politi, T. *see* **Diele, Fasma et al., (2004j:00014)**
Rocha Filho, Tarcísio M. (*with* Gléria, Iram M.; Figueiredo, Annibal) A novel approach for the stability problem in non-linear dynamical systems. (English summary) **2004g:34089**
Schwarz, Fritz Equivalence classes, symmetries and solutions of linear third-order differential equations. (English summary) **2004c:34022**
Sgura, I. *see* **Diele, Fasma et al., (2004j:00014)**
Teixeira, Marco Antonio *see* **Jacquemard, Alain, 2004e:34072**
Wang, Zai Hua (*with* Hu, Hai Yan) Authors' reply to: "Remarks on: 'Delay-independent stability of retarded dynamic systems of multiple degrees of freedom'" [J. Sound Vibration **265** (2003), no. 3, 693-694; MR 2004j:34174a] by S. Wu. **2004j:34174b**
— *see also* **Wu, Shaobo, 2004j:34174a**
Wu, Shaobo Remarks on: "Delay-independent stability of retarded dynamic systems of multiple degrees of freedom" [J. Sound Vibration **226** (1999), no. 1, 57–81; MR 2000f:34156] by Z. H. Wang and H. Y. Hu. **2004j:34174a**

— *see also* **Wang, Zai Hua, 2004j:34174b**

34–06 Proceedings, conferences, collections, etc.

(Afuwape, Anthony Uyi) *see* **Ordinary differential equations, 2004b:34005**
(Bohner, Martin) *see* **Advances in dynamic equations on time scales, 2004d:34003** *and* **Special Issue: Dynamic equations on time scales**
(Braaksma, B. L. J.) *see* **Differential equations and the Stokes phenomenon, 2004m:34005**
(Ezeilo, J. O. C.) *see* **Ordinary differential equations, 2004b:34005**
(Iannelli, Mimmo) *see* **Evolution equations: applications to physics, industry, life sciences and economics, 2004j:34002**
(Immink, G. K.) *see* **Differential equations and the Stokes phenomenon, 2004m:34005**
(Kaymakçalan, Billûr) *see* **Special Issue: Dynamic equations on time scales**
(Lumer, Günter) *see* **Evolution equations: applications to physics, industry, life sciences and economics, 2004j:34002**
(Peterson, Allan C.) *see* **Advances in dynamic equations on time scales, 2004d:34003**
(van der Put, Marius) *see* **Differential equations and the Stokes phenomenon, 2004m:34005**
(Tejumola, Haroon O.) *see* **Ordinary differential equations, 2004b:34005**
(Top, Jaap) *see* **Differential equations and the Stokes phenomenon, 2004m:34005**

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Abuja ★ Ordinary differential equations. **2004b:34005**
Advances in dynamic equations on time scales ★ Advances in dynamic equations on time scales. **2004d:34003**
Differential equations and the Stokes phenomenon ★ Differential equations and the Stokes phenomenon. **2004m:34005**
Evolution equations: applications to physics, industry, life sciences and economics ★ Evolution equations: applications to physics, industry, life sciences and economics. **2004j:34002**
Groningen ★ Differential equations and the Stokes phenomenon. **2004m:34005**
Levico Terme ★ Evolution equations: applications to physics, industry, life sciences and economics. **2004j:34002**
Ordinary differential equations ★ Ordinary differential equations. **2004b:34005**
Special Issue:
Dynamic equations on time scales ★ Special issue: dynamic equations on time scales.

Items with secondary classifications in 34–06

(Agarwal, Ravi P.) *see* **Nonlinear analysis and applications: to V. Lakshmikantham on his 80th birthday. Vol. 1, 2, 2004k:00023**
(Antreich, Kurt) *see* **Modeling, simulation, and optimization of integrated circuits, 2004h:00023**
(Bartušek, Miroslav) *see* **Colloquium: Differential and Difference Equations, 2004h:00020**
(Bulirsch, Roland) *see* **Modeling, simulation, and optimization of integrated circuits, 2004h:00023**
(Chen, Guanrong) *see* **Bifurcation control, 2004f:93004**
Chow, Shui-Nee (*with* Conti, Roberto[1]; Johnson, Russell A.; Mallet-Paret, John; Nussbaum, Roger D.) ★ Dynamical systems. **2004j:37002**
Conti, Roberto[1] *see* **Chow, Shui-Nee et al., 2004j:37002**
(Došlý, Ondřej) *see* **Colloquium: Differential and Difference Equations, 2004h:00020**
(Du, Joshua Z.) *see* **Dynamical systems and differential equations**
(Fauvet, F.) *see* **From combinatorics to dynamical systems, 2004j:00033**
(Gilg, A.) *see* **Modeling, simulation, and optimization of integrated circuits, 2004h:00023**
(Hill, David John) *see* **Bifurcation control, 2004f:93004**
(Hu, Shouchuan) *see* **Dynamical systems and differential equations**
Johnson, Russell A. *see* **Chow, Shui-Nee et al., 2004j:37002**
(Lakshmikantham, V.) *see* **Nonlinear analysis and applications: to V. Lakshmikantham on his 80th birthday. Vol. 1, 2, 2004k:00023**
(Lin, Yukweng Michael) *see* **Symposium: Nonlinear Stochastic Dynamics, IUTAM, 2004j:60007**
(Macki, J. W.) *see* **Chow, Shui-Nee et al., 2004j:37002**
Mallet-Paret, John *see* **Chow, Shui-Nee et al., 2004j:37002**
(Mitschi, Claude) *see* **From combinatorics to dynamical systems, 2004j:00033**
Nussbaum, Roger D. *see* **Chow, Shui-Nee et al., 2004j:37002**
(O'Regan, Donal) *see* **Nonlinear analysis and applications: to V. Lakshmikantham on his 80th birthday. Vol. 1, 2, 2004k:00023**
(Peixoto, Mauricio M.) *see* **Geometry of differential equations and dynamical systems**
(Pilyugin, Sergei Yu.) *see* **Special Issue: Dedicated to Victor A. Pliss on the occasion of his 70th birthday**
(Pliss, Viktor Aleksandrovich) *see* **Special Issue: Dedicated to Victor A. Pliss on the occasion of his 70th birthday**
(Rentrop, P.) *see* **Modeling, simulation, and optimization of integrated circuits, 2004h:00023**
(Sell, George R.) *see* **Special Issue: Dedicated to Victor A. Pliss on the occasion of his 70th birthday**
(Sibirskiĭ, Konstantin Sergeevich) *see* **In memory of C. S. Sibirsky**
(Sotomayor, Jorge) *see* **Geometry of differential equations and dynamical systems**
(Sri Namachchivaya, N.) *see* **Symposium: Nonlinear Stochastic Dynamics, IUTAM, 2004j:60007**
(Thomann, Jean) *see* **From combinatorics to dynamical systems, 2004j:00033**
(Yu, Xinghuo) *see* **Bifurcation control, 2004f:93004**
(Zecca, Pietro) *see* **Chow, Shui-Nee et al., 2004j:37002**

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Beer-Sheva ★ {Functional differential equations and applications}.
Bifurcation control ★ Bifurcation control. **2004f:93004**
Brno ★ Colloquium on Differential and Difference Equations: CDDE 2002. **2004h:00020**
Cetraro *see* **Chow, Shui-Nee et al., 2004j:37002**
Colloquium:
Differential and Difference Equations ★ Colloquium on Differential and Difference Equations: CDDE 2002. **2004h:00020**
Dynamical system modelling and stability investigation ★ Dynamical system modelling and stability investigation. **2004g:00012**
Dynamical systems *see* **Chow, Shui-Nee et al., 2004j:37002**
Dynamical systems and differential equations ★ Dynamical systems and differential equations.
Festschrift:
Peixoto, Maurício Matos ★ The geometry of differential equations and dynamical systems.
From combinatorics to dynamical systems ★ From combinatorics to dynamical systems. **2004j:00033**
Functional differential equations and applications ★ {Functional differential equations and applications}.
Geometry of differential equations and dynamical systems ★ The geometry of differential equations and dynamical systems.
In memory of C. S. Sibirsky ★ {In memory of C. S. Sibirsky}.
Kennesaw, GA ★ Dynamical systems and differential equations.
Kiev ★ Dynamical system modelling and stability investigation. **2004g:00012**
Lecture Notes in Control and Information Sciences ★ Bifurcation control. **2004f:93004**
Lecture Notes in Mathematics *see* **Chow, Shui-Nee et al., 2004j:37002**
Memorial Issue:
Sibirskiĭ, Konstantin Sergeevich ★ {In memory of C. S. Sibirsky}.
Modeling, simulation, and optimization of integrated circuits ★ Modeling, simulation, and optimization of integrated circuits. **2004h:00023**
Monticello, IL ★ IUTAM Symposium on Nonlinear Stochastic Dynamics. **2004j:60007**
Niš ★ Nonlinear mechanics, nonlinear sciences and applications. I.
Nonlinear analysis and applications: to V. Lakshmikantham on his 80th birthday. Vol. 1, 2 ★ Nonlinear analysis and applications: to V. Lakshmikantham on his 80th birthday. Vol. 1, 2. **2004k:00023**
Nonlinear mechanics, nonlinear sciences and applications ★ Nonlinear mechanics, nonlinear sciences and applications. I.
Oberwolfach ★ Modeling, simulation, and optimization of integrated circuits. **2004h:00023**
Special Issue:
Dedicated to Victor A. Pliss on the occasion of his 70th birthday ★ Special issue dedicated to Victor A. Pliss on the occasion of his 70th birthday.
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34B40 Boundary value problems on infinite intervals

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34B45 Boundary value problems on graphs and networks

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34B60 Applications

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34B99 None of the above, but in this section

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34Cxx Qualitative theory [see also 37–XX]

34C05 Location of integral curves, singular points, limit cycles

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34C07 Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications)

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34C08 Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.)

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34C10 Oscillation theory, zeros, disconjugacy and comparison theory

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34C15 Nonlinear oscillations, coupled oscillators

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34C40 Equations and systems on manifolds

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34D09 Dichotomy, trichotomy

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34D35 Stability of manifolds of solutions

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34D99 None of the above, but in this section

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34Exx Asymptotic theory

34E05 Asymptotic expansions

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34E15 Singular perturbations, general theory

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34E18 Methods of nonstandard analysis

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34E20 Singular perturbations, turning point theory, WKB methods

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34E99 None of the above, but in this section

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34F05 Equations and systems with randomness [see also 34K50, 60H10, 93E03]

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34Gxx Differential equations in abstract spaces [see also 34Lxx, 37Kxx, 47Dxx, 47Hxx, 47Jxx, 58D25]

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34Kxx Functional-differential and differential-difference equations, with or without deviating arguments [see also 37–XX]

34K05 General theory

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34K06 Linear functional-differential equations

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34K07 Theoretical approximation of solutions

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34K10 Boundary value problems

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34K11 Oscillation theory

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34K14 Almost periodic solutions

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34K17 Transformation and reduction of equations and systems, normal forms

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34K18 Bifurcation theory

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34K25 Asymptotic theory

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34K26 Singular perturbations

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34K28 Numerical approximation of solutions

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34L25 Scattering theory

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34L30 Nonlinear ordinary differential operators

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34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)

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34Mxx Differential equations in the complex domain [see also 30Dxx, 32G34]

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(Braaksma, B. L. J.) *see* **Differential equations and the Stokes phenomenon, 2004m:34005**
(Immink, G. K.) *see* **Differential equations and the Stokes phenomenon, 2004m:34005**
(van der Put, Marius) *see* **Differential equations and the Stokes phenomenon, 2004m:34005**
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34M05 Entire and meromorphic solutions

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34M10 Oscillation, growth of solutions

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34M35 Singularities, monodromy, local behavior of solutions, normal forms

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34M50 Inverse problems (Riemann-Hilbert, inverse differential Galois, etc.)

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34M55 Painlevé and other special equations; classification, hierarchies; isomonodromic deformations

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— (*with* Mansfield, Elizabeth L.) The second Painlevé equation, its hierarchy and associated special polynomials. (English summary) **2004a:34171**
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Masuda, Tetsu On the rational solutions of q-Painlevé V equation. (English summary) **2004b:39021**
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Yan, Zhen Ya Painlevé analysis, auto-Bäcklund transformations and exact solutions for a simplified model for reacting mixtures. (English summary) **2004e:76114**
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34M60 Singular perturbation problems in the complex domain (complex WKB, turning points, steepest descent) [see also 34E20]

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Balser, Werner (*with* Kostov, Vladimir Petrov) Recent progress in the theory of formal solutions for ODE and PDE. (English summary) **2004g:34147**
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Pravda-Starov, Karel A general result about the pseudo-spectrum of Schrödinger operators. (English summary) **2004j:47094**
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Takei, Yoshitsugu Exact WKB analysis and exact steepest descent method—a continuation of the theory of algebraic analysis for singular perturbations. (Japanese) **2004k:34110**

34M99 None of the above, but in this section

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Chouikha, A. Raouf Note on trigonometric expansions of theta functions. (English summary) **2004f:33039**
Han, Yue Cai *see* **Shi, Shao Yun et al., 2004a:34009**
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Laine, Ilpo Introduction to local theory of complex differential equations. (English summary) **2004b:34001**
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Lion, Jean-Marie Exemples en géométrie pfaffienne: transcendance, intégrale première et contact. [Examples in Pfaffian geometry: transcendence, first integrals and contact] **2004c:58004**
Mandel, Paul *see* **Pieroux, Didier, 2004f:34109**
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Sarlet, Willy Different forms of separability of second-order equations. (English summary) **2004b:34014**
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35–XX Partial differential equations

35–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Polyanin, Andrei D. (*with* Zaitsev, Valentin F.) ★ Handbook of nonlinear partial differential equations. **2004m:35001**
Zaitsev, Valentin F. *see* **Polyanin, Andrei D., 2004m:35001**

35–01 Instructional exposition (textbooks, tutorial papers, etc.)

Howison, S. D. *see* **Ockendon, John R. et al., 2004i:35001**
Jeffrey, Alan ★ Applied partial differential equations. **2004g:35001**
Kythe, Prem K. (*with* Puri, Pratap; Schäferkotter, Michael R.) ★ Partial differential equations and boundary value problems with Mathematica. **2004h:35001**
Lacey, Andrew *see* **Ockendon, John R. et al., 2004i:35001**
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Puri, Pratap *see* **Kythe, Prem K. et al., 2004h:35001**
Renardy, Michael (*with* Rogers, Robert C.) ★ An introduction to partial differential equations. **2004j:35001**
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Bressan, Alberto Conservation laws. (Italian)
Cazenave, Thierry ★ Semilinear Schrödinger equations. **2004j:35266**
Davis, Jon H. ★ Methods of applied mathematics with a MATLAB overview. **2004k:00002**
Demidov, A. S. ★ Generalized functions in mathematical physics: main ideas and concepts. **2004j:46057**
(Egorov, Yurīĭ Vladimirovich) *see* **Demidov, A. S., 2004j:46057**
Jones, Douglas S. (*with* Sleeman, B. D.) ★ Differential equations and mathematical biology. **2004g:92003**
King, Andrew C. (*with* Billingham, John; Otto, S. R.) ★ Differential equations. **2004d:34001**
Krantz, Steven G. ★ A handbook of real variables. **2004i:26001**
Larsson, Stig (*with* Thomée, Vidar) ★ Partial differential equations with numerical methods. **2004f:65001**
Otto, S. R. *see* **King, Andrew C. et al., 2004d:34001**
Scott, Alwyn ★ Nonlinear science. **2004k:37002**
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35–02 Research exposition (monographs, survey articles)

Arnol′d, V. I. ★ Lectures on partial differential equations. **2004j:35002**
Bensoussan, Alain (*with* Frehse, Jens) ★ Regularity results for nonlinear elliptic systems and applications. (English summary) **2004a:35001**
Biktashev, Vadim N. Envelope equations for modulated non-conservative waves. (English summary) **2004a:35002**
(Bougrini, H.) *see* **Symbolic calculus for semilinear hyperbolic progressing waves, 2004i:35003**
(Cooke, Roger L.) *see* **Arnol′d, V. I., 2004j:35002**
Denk, Robert (*with* Hieber, Matthias; Prüss, Jan) $\mathscr{R}$-boundedness, Fourier multipliers and problems of elliptic and parabolic type. (English summary) **2004i:35002**
Fedorov, F. M. ★ Граничный метод решения прикладных задач математической физики. (Russian. Russian summary) [The boundary method for solving applied problems of mathematical physics] **2004k:35001**
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(Piriou, Alain) *see* **Symbolic calculus for semilinear hyperbolic progressing waves, 2004i:35003**
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Titeux, Isabelle (*with* Yakubov, Yakov) ★ Application of abstract differential equations to some mechanical problems. **2004j:35003**
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Symbolic calculus for semilinear hyperbolic progressing waves ★ Symbolic calculus for semilinear hyperbolic progressing waves. **2004i:35003**

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Amirov, A. Kh. ★ Integral geometry and inverse problems for kinetic equations. (English summary) **2004i:35307**
Atakhodzhaev, M. A. ★ Ill-posed internal boundary value problems for the biharmonic equation. **2004i:35304**
Belov, Yu. Ya. ★ Inverse problems for partial differential equations. **2004j:35293**
Capuzzo Dolcetta, Italo Liouville theorems and a priori estimates for elliptic semilinear equations. (Italian) **2004a:35060**
Friedman, Avner (*with* Ross, David Stewart) ★ Mathematical models in photographic science. **2004c:82119**
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Kopachevskii, Nikolai D. (*with* Krein, Selim G.) ★ Operator approach to linear problems of hydrodynamics. Vol. 2. **2004g:76001**
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Nicolaenko, Basil *see* **Mahalov, Alexis S., 2004h:35177**
Ross, David Stewart *see* **Friedman, Avner, 2004c:82119**
Uhlmann, Gunther Inverse boundary problems in two dimensions. (English summary) **2004h:35225**
Wittum, Gabriel *see* **Khoromskiĭ, B. N., 2004m:65002**

35–03 Historical (must also be assigned at least one classification number from Section 01)

Biler, Piotr Partial differential equations at the turn of the 20th and 21st centuries. (Polish)
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35A27 Microlocal methods; methods of sheaf theory and homological algebra in PDE [see also 32C38, 58J15]

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35A30 Geometric theory, characteristics, transformations [see also 58J70, 58J72]

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35Bxx Qualitative properties of solutions

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35B20 Perturbations

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35B25 Singular perturbations

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"On energy decay rate for linear damped systems" Corrigendum: "On energy decay rate for linear damped systems" [Discrete Contin. Dyn. Syst. **8** (2002), no. 4, 851–864; MR 2003h:93060] by M. Aassila. **2004c:93107**

Retraction:

"The influence of nonlocal nonlinearities on the long time behavior of solutions of diffusion problems" Retraction of: "The influence of nonlocal nonlinearities on the longtime behavior of solutions of diffusion problems" [J. Differential Equations **192** (2003), no. 1, 47–69; MR 2004f:35090a] by M. Aassila. **2004f:35090b**

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35B65 Smoothness and regularity of solutions of PDE

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35C15 Integral representations of solutions of PDE

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35Dxx Generalized solutions of partial differential equations

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35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations

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35Hxx Close-to-elliptic equations

35H10 Hypoelliptic equations

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35J35 Variational methods for higher-order, elliptic equations

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35J40 Boundary value problems for higher-order, elliptic equations

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35J45 General theory of elliptic systems of PDE

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35J55 Boundary value problems for elliptic systems

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35J99 None of the above, but in this section

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35Kxx Parabolic equations and systems [see also 35Bxx, 35Dxx, 35R30, 35R35, 58J35]

35K05 Heat equation

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35K10 General theory of second-order, parabolic equations

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Errata:

"Cattaneo models for chemosensitive movement: numerical solution and pattern formation" Erratum: "Cattaneo models for chemosensitive movement: numerical solution and pattern formation" [J. Math. Biol. **46** (2003), no. 2, 153–170] by Y. Dolak and T. Hillen. **2004g:92007**

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35K57 Reaction-diffusion equations

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"Parametric dependence of exponents and eigenvalues in focusing porous media flows" Erratum: "Parametric dependence of exponents and eigenvalues in focusing porous media flows" [European J. Appl. Math. **14** (2003), no. 4, 485–512] by D. G. Aronson, J. B. van den Burg and J. Hulshof.
Retraction:
"The influence of nonlocal nonlinearities on the long time behavior of solutions of diffusion problems" Retraction of: "The influence of nonlocal nonlinearities on the longtime behavior of solutions of diffusion problems" [J. Differential Equations **192** (2003), no. 1, 47–69; MR 2004f:35090a] by M. Aassila. **2004f:35090b**

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Errata:

"Conservation law with discontinuous flux" Erratum: "Conservation law with discontinuous flux" [J. Math. Kyoto Univ. **43** (2003), no. 1, 27–70] by Adimurthi and G. D. V. Gowda.

"Extremal functions for plane quasiconformal mappings" Erratum: "Extremal functions for plane quasiconformal mappings" [J. Math. Kyoto Univ. **43** (2003), no. 1, 71–99] by S. Kurihara and S. Yamashita.

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35L75 Nonlinear hyperbolic PDE of higher (> 2) order

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— (*with* Wang, Xia) Blowup of solutions for the "bad" Boussinesq-type equation. (English summary) **2004f:35166**
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35L80 Hyperbolic PDE of degenerate type

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Domingos Cavalcanti, Valéria Neves *see* **Cavalcanti, Marcelo Moreira et al., 2004h:35159**
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— On some boundary value problems for nonlinear degenerate hyperbolic equations of higher order.
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Ghisi, Marina Global solutions to some nonlinear dissipative mildly degenerate Kirchhoff equations. (English summary) **2004a:35157**
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— (*with* Reissig, Michael) Construction of parametrix to strictly hyperbolic Cauchy problems with fast oscillations in nonLipschitz coefficients. (English summary) **2004g:35145**
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35L82 Pseudohyperbolic equations

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— *see also* **Nonlaopon, K.**
Kostomarov, D. P. The Cauchy problem for an ultrahyperbolic equation. (Russian. Russian summary) **2004h:35161**
— The Cauchy problem for an ultrahyperbolic equation with initial conditions defined on a hyperplane. (Russian) **2004e:35163**
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Ortner, Norbert (*with* Wagner, Peter[2]) Deduction of L. Hörmander's extension of Ásgeirsson's mean value theorem. (English summary) **2004j:35204**
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Kostomarov, D. P. Application of the averaging method and the descent method to the investigation of the Cauchy problem for an ultrahyperbolic equation. (Russian. Russian summary) **2004f:35015**
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Ørsted, Bent *see* **Kobayashi, Toshiyuki[1], 2004k:22018c**
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Ukrainian summaries) **2004i:49052**
Sergienko, T. I. *see* **Lyashko, Sergei I. et al., 2004h:93017**
Sritanratana, G. (*with* Kananthai, Amnuay) On the product of the non-linear diamond operators related to the elastic wave. (English summary) **2004h:35158**

35L85 Unilateral problems; variational inequalities for hyperbolic PDE [see also 35R35, 49J40]

Hajouj, Brahim (*with* Madaune-Tort, Monique) A unilateral hyperbolic problem with small parameters. (English summary) **2004e:35164**
Kim, Hyun Min *see* **Park, Jong Yeoul et al., 2004g:35169**
Madaune-Tort, Monique *see* **Hajouj, Brahim, 2004e:35164**
Park, Jong Yeoul (*with* Kim, Hyun Min; Park, Sun Hye) On weak solutions for hyperbolic differential inclusion with discontinuous nonlinearities. (English summary) **2004g:35169**
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Bonfanti, Giovanna (*with* Frémond, Michel; Luterotti, Fabio) Existence and uniqueness results to a phase transition model based on microscopic accelerations and movements. (English summary) **2004h:80007**
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Cocou, Marius (*with* Scarella, G.) Approximation of a dynamic unilateral contact problem for a cracked viscoelastic body. (English summary) (*see* **2004m:00011**)
Frémond, Michel *see* **Bonfanti, Giovanna et al., 2004h:80007**
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Park, Jong Yeoul (*with* Park, Sun Hye) Solutions for a hyperbolic system with boundary differential inclusion and nonlinear second-order boundary damping. (English summary) **2004e:35156**
Park, Sun Hye *see* **Park, Jong Yeoul, 2004e:35156**
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35L90 Abstract hyperbolic evolution equations

Garrido-Atienza, María J. (*with* Real Anguas, José) Existence and uniqueness of solutions for delay evolution equations of second order in time. (English summary) **2004d:35181**
Goldstein, Jerome A. (*with* Wacker, M.) The energy space and norm growth for abstract wave equations. (English summary) **2004e:35165**
Muñoz Rivera, Jaime Edilberto (*with* Naso, Maria Grazia; Vegni, Federico Mario) Asymptotic behavior of the energy for a class of weakly dissipative second-order systems with memory. (English summary) **2004j:35205**
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Vegni, Federico Mario *see* **Muñoz Rivera, Jaime Edilberto et al., 2004j:35205**
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Avalos, George (*with* Lasiecka, Irena) Optimal blowup rates for the minimal energy null control of the strongly damped abstract wave equation. (English summary) **2004h:49040**
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Chill, Ralph Convergence of bounded solutions to gradient-like semilinear Cauchy problems with radial nonlinearity. (English summary) **2004c:35025**
— (*with* Haraux, Alain) An optimal estimate for the difference of solutions of two abstract evolution equations. (English summary) **2004f:34068**
Faraci, Francesca (*with* Livrea, Roberto) Infinitely many periodic solutions for a second-order nonautonomous system. (English summary) **2004f:34062**
Favini, Angelo *see* **Al Horani, M., 2004m:93030**
Fečkan, Michal Forced vibrations of abstract wave equations. **2004b:34154**
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— *see also* **Yakubov, Sasun, 2004k:34117**
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"On energy decay rate for linear damped systems" Corrigendum: "On energy decay rate for linear damped systems" [Discrete Contin. Dyn. Syst. **8** (2002), no. 4, 851–864; MR 2003h:93060] by M. Aassila. **2004c:93107**

35L99 None of the above, but in this section

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Bouchut, François (*with* Golse, François; Pallard, Christophe) Nonresonant smoothing for coupled wave + transport equations and the Vlasov-Maxwell system. (English summary) **2004m:82119**
Golse, François *see* **Bouchut, François et al., 2004m:82119**
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35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80.}

35M10 PDE of mixed type

Barros-Neto, J. (*with* Gel′fand, Izrail′ Moiseevich) Correction to: "Fundamental solutions for the Tricomi operator. II" [Duke Math. J. **111** (2002), no. 3, 561–584; MR 2003f:35219]. (English summary) **2004c:35293**
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Chen, Gui-Qiang (*with* Feldman, Mikhail) Multidimensional transonic shocks and free boundary problems for nonlinear equations of mixed type. **2004d:35182**
Chiganova, N. V. The eigenvalue problem for an equation of mixed type with two lines of degeneracy. (Russian)
Citti, G. (*with* Montanari, Annamaria) Regularity properties of solutions of a class of elliptic-parabolic nonlinear Levi type equations. (English summary) **2004k:35276**
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Eleev, V. A. (*with* Lesev, V. N.) On two boundary value problems for mixed equations with perpendicular lines of type change. (Russian. Russian summary)
— (*with* Belkharoeva, Z. M.) A boundary value problem for a third-order mixed hyperbolic-parabolic equation. (Russian. Russian summary)
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Glazatov, S. N. Some nonclassical boundary value problems for linear equations of mixed type. (Russian. Russian summary) **2004a:35164**
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Le Brizaut, Jean-Sébastien Méthodes d'optimisation pour l'approche de problèmes aux limites non linéaires mixtes elliptiques hyperboliques. (English and French summaries) [Optimization methods for treating mixed elliptic-hyperbolic nonlinear boundary value problems] **2004d:35183**
Lerner, M. E. (*with* Repin, Oleg A.) A boundary value problem for equations of mixed type in domains with multiply connected hyperbolicity subdomains. (Russian. Russian summary) **2004b:35239**
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Magnanini, Rolando (*with* Talenti, Giorgio) Approaching a partial differential equation of mixed elliptic-hyperbolic type. (English summary) **2004j:35206**
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— (*with* Shmelëva, N. G.) Boundary value problems for the Lavrent′ev-Bitsadze equation with a complex parameter. (Russian) **2004h:35162**
— (*with* Bibakova, S. L.) Construction of the eigenfunctions of the Tricomi-Neumann problem for an equation of mixed type with characteristic degeneration and their application. (Russian. Russian summary) **2004h:35163**
Salmanova, Sh. Yu. On solvability of the first boundary value problem for the second order degenerate elliptico-parabolic equations. (English and Azerbaijani summaries) **2004b:35240**

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35M99 None of the above, but in this section

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35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO

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35Q80 Applications of PDE in areas other than physics

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35Rxx Miscellaneous topics involving partial differential equations {For equations on manifolds, see 58Jxx; for manifolds of solutions, see 58Bxx; for stochastic PDEs, see also 60H15.}

35R05 PDE with discontinuous coefficients or data

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Ben Moussa, B. (*with* Kossioris, G. T.) On the system of Hamilton-Jacobi and transport equations arising in geometrical optics. (English summary) **2004g:35218**
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Blanchard, Dominique (*with* Porretta, Alessio) Nonlinear parabolic equations with natural growth terms and measure initial data. (English summary) **2004c:35172**
Boccardo, Lucio (*with* Leone, Chiara) Some Dirichlet problems with singular data: existence and G-convergence. (English summary) **2004j:35075**
Bürger, Raimund (*with* Karlsen, Kenneth Hvistendahl; Risebro, Nils Henrik; Towers, J. D.) Well-posedness in BV_t and convergence of a difference scheme for continuous sedimentation in ideal clarifier-thickener units. (English summary) **2004m:35175**
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Hauray, M. On two-dimensional Hamiltonian transport equations with L^p_{loc} coefficients. (English and French summaries) **2004g:35037**
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Nicaise, Serge (*with* Penkin, Oleg M.) Fundamental inequalities on firmly stratified sets and some applications. (English summary) **2004a:35049**

Oppezzi, Pirro (*with* Rossi, Anna Maria) Existence and uniqueness of solutions for nonlinear and non coercive problems with measure data. (English and Italian summaries) **2004e:35082**
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Rivera-Noriega, Jorge Absolute continuity of parabolic measure and area integral estimates in non-cylindrical domains. (English summary) **2004d:35093**
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Yuan, Hong Jun (*with* Xiaoyu, Zheng) Existence and uniqueness for a quasilinear hyperbolic equation with σ-finite Borel measures as initial conditions. (English summary) **2004a:35149**

35R10 Partial functional-differential or differential-difference equations, with or without deviating arguments

Ackleh, Azmy S. (*with* Deng, Keng) On a first-order hyperbolic coagulation model. (English summary) **2004b:35326**
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Andreucci, Daniele *see* **Amar, Micol et al.**, **2004m:35264**
Azamatov, J. S. (*with* Lorenzi, Alfredo) Direct and inverse problems for evolution integro-differential equations of the first-order in time. (English summary) **2004k:35380**
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Bruk, V. M. (*with* Krys′ko, V. A.) On the existence and uniqueness of the solution of the Cauchy problem for operator-differential equations of mixed type. (Russian)
Chen, Zu Chi (*with* Luo, Tao[1]) The initial-boundary value problem for quasilinear integro-differential equations. (English summary) **2004a:35209**
Colli, Pierluigi Phase relaxation problems with memory and their optimal control. (*see* **2004j:00034**)
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Człapiński, T. (*with* Kamont, Zdzisław) Existence of weak solutions of nonlinear functional differential equations with unbounded delay. (English summary) **2004f:35178**
Debnath, Lokenath *see* **Li, Wei Nian et al.**, **2004b:35327**
Dehici, Abdelkader (*with* Latrach, Khalid; Jeribi, Aref) On a transport operator arising in growing cell populations. Spectral analysis. (English summary) (*see* **2004h:00011**)
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Deng, Keng *see* **Ackleh, Azmy S.**, **2004b:35326**
Deng, Li Hu *see* **Luo, Yu-wen**
Drīn′, S. S. *see* **Gorodets′kiĭ, V. V.**
Du, Li Li (*with* Yu, Kai Xuan; Fan, Ming-shu) Sufficient conditions of oscillation of solutions for delay parabolic equation of neutral type. (English and Chinese summaries)
Dyson, Janet (*with* Villella-Bressan, Rosanna; Webb, Glenn F.) A semilinear transport equation with delays. (English summary) **2004e:35223**
Fan, Ming-shu *see* **Du, Li Li et al.**
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Fu, Xi Lin (*with* Shiau, Lie June) Oscillation criteria for impulsive parabolic boundary value problem with delay. (English summary)
Gallardo, Léonard (*with* Godefroy, Laurent) Propriété de Liouville et équation de Poisson pour le laplacien généralisé de Dunkl. (English and French summaries) [Liouville property and Poisson equation for the generalized Dunkl Laplacian] **2004j:35286**
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Georgiev, Lubomir P. On the Goursat problem for hyperbolic functional-differential equations. **2004f:35179**
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He, Mengxing (*with* Liu, An Ping) The oscillation of hyperbolic functional differential equations. (English summary) **2004c:35403**
Hereman, Willy A. *see* **Hickman, Mark S.**, **2004i:35298**
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Jeribi, Aref *see* **Dehici, Abdelkader et al.**, (**2004h:00011**)
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— (*with* Cui, Bao Tong) Necessary and sufficient conditions for oscillation of delay parabolic differential equations. (English summary)
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— (*with* Cui, Bao Tong; Debnath, Lokenath) Oscillation of systems of certain neutral delay parabolic differential equations. (English summary) **2004b:35327**
— (*with* Meng, Fan Wei) On the forced oscillation of systems of neutral parabolic differential equations with deviating arguments. (English summary) **2004h:35215**
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Muñoz Rivera, Jaime Edilberto (*with* Peres Salvatierra, Alfonso) Decay of the energy to partially viscoelastic materials. (*see* **2004j:00034**)
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Rocca, Elisabetta Some remarks on the conserved Penrose-Fife phase field model with memory effects. **2004m:35265**
— Existence and uniqueness for the parabolic conserved phase-field model with memory. (English summary)
Savithri, R. *see* **Thandapani, Ethiraju**, **2004k:35384**
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35R12 Impulsive partial differential equations

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35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [see also 46Gxx, 58D25]

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35R25 Improperly posed problems for PDE

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37Axx Ergodic theory [see also 28Dxx]

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37A05 Measure-preserving transformations

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37A10 One-parameter continuous families of measure-preserving transformations

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37A15 General groups of measure-preserving transformations [See mainly 22Fxx]

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37A17 Homogeneous flows [see also 22Fxx]

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Stepin, Anatoliĭ Mikhaĭlovich On three problems about dynamical systems related to lattices and homogeneous spaces. (English summary) **2004b:37003**
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37A20 Orbit equivalence, cocycles, ergodic equivalence relations

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37A25 Ergodicity, mixing, rates of mixing

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37A35 Entropy and other invariants, isomorphism, classification

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37A55 Relations with the theory of C^*-algebras [See mainly 46L55]

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37Bxx Topological dynamics [see also 54H20]

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37B10 Symbolic dynamics [see also 37Cxx, 37Dxx]

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37B30 Index theory, Morse-Conley indices

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37B35 Gradient-like and recurrent behavior; isolated (locally-maximal) invariant sets

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37B45 Continua theory in dynamics

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37B50 Multi-dimensional shifts of finite type, tiling dynamics

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37Cxx Smooth dynamical systems: general theory [see also 34Cxx, 34Dxx]

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37C15 Topological and differentiable equivalence, conjugacy, invariants, moduli, classification

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37C20 Generic properties, structural stability

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37C25 Fixed points, periodic points, fixed-point index theory

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37C27 Periodic orbits of vector fields and flows

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37C29 Homoclinic and heteroclinic orbits

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37C30 Zeta functions, (Ruelle-Frobenius) transfer operators, and other functional analytic techniques in dynamical systems

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37C80 Symmetries, equivariant dynamical systems

Elmhirst, Toby Spatio-temporal symmetries in $\mathbf{S}_N$- and $\mathbf{S}_N \times \mathbb{Z}_2$-equivariant systems. (English summary) **2004k:37041**
Field, Michael Persistent ergodicity and stably ergodic SRB attractors in equivariant dynamics. (English summary) **2004j:37041**
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— Structure of group invariants of a quasiperiodic flow. (English summary) **2004k:37038**
Bibikov, Yu. N. On the stability of the zero solution of essentially nonlinear Hamiltonian systems and reversible systems with one degree of freedom. (Russian. Russian summary) **2004i:37113**
Chen, Kuo-Chang Variational methods on periodic and quasi-periodic solutions for the N-body problem. (English summary) **2004m:70017**
Chung, K. W. (*with* Wang, Bennan) Tessellations with symmetries of the triangle groups from dynamics. (English summary) **2004m:37082**
Crâşmăreanu, Mircea Conserved quantities for dynamical systems with relative invariant form. (French summary) **2004d:70024**
Fernandez, Bastien (*with* Jiang, Miaohua) Coupling two unimodal maps with simple kneading sequences. (English summary) **2004k:37073**
Gómez, Adriana (*with* Meiss, J. D.) Reversible polynomial automorphisms of the plane: the involutory case. (English summary) **2004e:37056**
Jiang, Miaohua *see* **Fernandez, Bastien**, **2004k:37073**
Kapela, Tomasz (*with* Zgliczyński, Piotr) The existence of simple choreographies for the N-body problem—a computer-assisted proof. (English summary) **2004h:70019**
Meiss, J. D. *see* **Gómez, Adriana**, **2004e:37056**
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37C85 Dynamics of group actions other than Z and R, and foliations [See mainly 22Fxx, and also 57R30, 57Sxx]

Adams, Scot Non-tame Lorentz actions of semisimple Lie groups. (English summary) **2004k:37042**
— Transitive actions on Lorentz manifolds with noncompact stabilizer. (English summary) **2004f:37032**
Barbot, Thierry Feuilletages transversalement projectifs sur les variétés de Seifert. (English and French summaries) [Transversely projective foliations on Seifert manifolds] **2004k:37043**
Bercovici, Hari (*with* Nițică, Viorel) Cohomology of higher rank abelian Anosov actions for Banach algebra valued cocycles. (English summary) **2004k:37044**
Bhattacharya, Siddhartha (*with* Schmidt, Klaus[1]) Homoclinic points and isomorphism rigidity of algebraic $\mathbb{Z}^d$-actions on zero-dimensional compact abelian groups. (English summary) **2004g:37029**
— Higher order mixing and rigidity of algebraic actions on compact abelian groups. (English summary) **2004g:37030**
Chubarov, Georgy V. *see* **Zhukova, Nina I.**, **2004j:37044**
Einsiedler, Manfred (*with* Schmidt, Klaus[1]) Irreducibility, homoclinic points and adjoint actions of algebraic $\mathbb{Z}^d$-actions of rank one. (English summary) **2004e:37041**
— (*with* Katok, Anatole) Invariant measures on G/Γ for split simple Lie groups G. (English summary) **2004e:37042**
Fisher, David Michael (*with* Whyte, Kevin) When is a group action determined by its orbit structure? (English summary) **2004k:37045**
Franks, John (*with* Handel, Michael) Area preserving group actions on surfaces. (English summary) **2004j:37042**
Gutkin, Eugene (*with* Hubert, Pascal; Schmidt, Thomas A.) Affine diffeomorphisms of translation surfaces: periodic points, Fuchsian groups, and arithmeticity. (English and French summaries) **2004m:37042**
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Kotschick, D. (*with* Vogel, Thomas) Linking numbers of measured foliations. (English summary) **2004c:37047**
Luz, Richard Urzúa The first cohomology of affine $\mathbb{Z}^p$-actions on tori and applications to rigidity. (English summary) **2004f:37033**
Matsumoto, Shigenori (*with* Mitsumatsu, Y.) Leafwise cohomology and rigidity of certain Lie group actions. (English summary) **2004k:37046**
Mitsumatsu, Y. *see* **Matsumoto, Shigenori**, **2004k:37046**
Newberger, Florence On the Patterson-Sullivan measure for geometrically finite groups acting on complex or quaternionic hyperbolic space. (English summary) **2004m:37043**
Nițică, Viorel *see* **Bercovici, Hari**, **2004k:37044**
Rebelo, Julio C. (*with* Silva, Raderson R.) The multiple ergodicity of nondiscrete subgroups of $\mathrm{Diff}^{\omega}(S^1)$. (English and Russian summaries) **2004g:37031**
Schapira, Barbara Mesures quasi-invariantes pour un feuilletage et limites de moyennes longitudinales. (English and French summaries) [Quasi-invariant measures for a foliation and limits of leafwise averages] **2004j:37043**
Schmidt, Klaus[1] *see* **Einsiedler, Manfred**, **2004e:37041** *and* **Bhattacharya, Siddhartha**, **2004g:37029**
Schmidt, Thomas A. *see* **Gutkin, Eugene et al.**, **2004m:37042**
Serow, Dmitry W. Stable property-like dissipative homoclinic structures. (English summary) **2004k:37047**
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Zhukova, Nina I. (*with* Chubarov, Georgy V.) Aspects of the qualitative theory of suspended foliations. (English summary) **2004j:37044**

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Alonso, Clementa Topological equivalence for saddle connections. (English summary) **2004h:37019**
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Anosov, D. V. (*with* Zhuzhoma, E. V.) Asymptotic behavior of covering curves on the universal coverings of surfaces. (Russian. Russian summary) **2004f:37058**
Aranson, Samuil Khaimovich (*with* Grines, V. Z.; Kaimanovich, V. A.) Classification of supertransitive 2-webs on surfaces. (English summary) **2004f:37059**
Azevedo Scárdua, Bruno (*with* Morales, Carlos) ★ Geometry, dynamics and topology of foliated manifolds. **2004m:57061**
Béguin, François (*with* Le Roux, Frédéric) Ensemble oscillant d'un homéomorphisme de Brouwer, homéomorphismes de Reeb. (English and French summaries) [Oscillation set of a Brouwer homeomorphism, Reeb homeomorphisms] **2004e:37054**
Benedetti, Riccardo (*with* Gambaudo, Jean-Marc) On the dynamics of $\mathbb{G}$-solenoids. Applications to Delone sets. (English summary) **2004f:37019**
Bernstein, Holly (*with* Witte Morris, Dave) Foliation-preserving maps between solvmanifolds. (English summary) **2004m:22013**
Bonk, Mario (*with* Kleiner, Bruce) Rigidity for quasi-Möbius group actions. (English summary) **2004b:53059**
Brin, Michael On dynamical coherence. (English summary) **2004a:37037**
Candel, Alberto (*with* Conlon, Lawrence) ★ Foliations. II. **2004e:57034**
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Farb, Benson (*with* Franks, John) Group actions on one-manifolds. II. Extensions of Hölder's theorem. (English summary) **2004f:37052**
Feres, Renato Rigid geometric structures and actions of semisimple Lie groups. (English and French summaries) **2004m:53076**
Field, Michael (*with* Melbourne, Ian; Török, Andrei) Decay of correlations, central limit theorems and approximation by Brownian motion for compact Lie group extensions. (English summary) **2004m:37046**
Franks, John *see* **Farb, Benson**, **2004f:37052**
Gambaudo, Jean-Marc *see* **Benedetti, Riccardo**, **2004f:37019**
Garcia, Ronaldo A. Principal curvature lines near Darbouxian partially umbilic points of hypersurfaces immersed in $\mathbb{R}^4$. (English summary) **2004g:53008**
— (*with* Sotomayor, Jorge) Geometric mean curvature lines on surfaces immersed in $\mathbb{R}^3$. (English and French summaries) **2004i:53002**
— (*with* Sotomayor, Jorge) Harmonic mean curvature lines on surfaces immersed in $\mathbb{R}^3$. (English summary) **2004e:53003**
Ghys, Étienne ★ Groups acting on the circle.
Grines, V. Z. *see* **Aranson, Samuil Khaimovich et al.**, **2004f:37059**
Guiñez, Víctor (*with* Sáez, Eduardo) Versal unfoldings for rank-2 singularities of positive quadratic differential forms. (English summary) **2004i:58066**
Hofer, Helmut H. W. (*with* Wysocki, K.; Zehnder, E.) Finite energy foliations of tight three-spheres and Hamiltonian dynamics. (English summary) **2004a:53108**
Ivan′shin, P. N. Structure of function algebras on foliated manifolds. (English summary)
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Kleinbock, Dmitry (*with* Shah, Nimish A.; Starkov, A. N.) Dynamics of subgroup actions on homogeneous spaces of Lie groups and applications to number theory. **2004b:22021**
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Kotschick, D. Godbillon-Vey invariants for families of foliations. (English summary) **2004c:58045**
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McMullen, Curtis T. Local connectivity, Kleinian groups and geodesics on the blowup of the torus. (English summary) **2004e:30068**
— Coxeter groups, Salem numbers and the Hilbert metric. **2004b:20054**
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Mello, Luis Fernando Mean directionally curved lines on surfaces immersed in $\mathbb{R}^4$. (English summary) **2004i:53007**
Mesón, Alejandro M. (*with* Vericat, Fernando) Entropies of groups as knot invariants. (English summary) **2004a:57008**
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Pilyugin, Sergei Yu. (*with* Tikhomirov, Sergei B.) Shadowing in actions of some abelian groups. (English summary) **2004i:37050**
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Singhof, Wilhelm (*with* Vogt, Elmar) Tangential category of foliations. (English summary) **2004a:57035**
Śniatycki, Jędrzej Integral curves of derivations on locally semi-algebraic differential spaces. (English summary) **2004m:37102**
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Starkov, A. N. *see* **Kleinbock, Dmitry et al., 2004b:22021**
Tikhomirov, Sergei B. *see* **Pilyugin, Sergei Yu., 2004i:37050**
Tomanov, George Actions of maximal tori on homogeneous spaces. (English summary) **2004a:22011**
Török, Andrei *see* **Field, Michael et al., 2004m:37046**
Vericat, Fernando *see* **Mesón, Alejandro M., 2004a:57008**
Vogt, Elmar *see* **Singhof, Wilhelm, 2004a:57035**
Witte Morris, Dave *see* **Bernstein, Holly, 2004m:22013**
Wysocki, K. *see* **Hofer, Helmut H. W. et al., 2004a:53108**
Zeghib, Abdelghani Sur les groupes de transformations rigides: théorème de l'orbite dense-ouverte. (English and French summaries) [On rigid transformation groups: open-dense orbit theorem] **2004h:58029**
Zehnder, E. *see* **Hofer, Helmut H. W. et al., 2004a:53108**
Zhuzhoma, E. V. *see* **Anosov, D. V., 2004f:37058**

37C99 None of the above, but in this section

Afraimovich, Valentin S. *see* **Rulkov, Nikolai F., 2004f:37034**
Ahmed, Elsayed Mohamed (*with* Hegazi, A. S.) On circle map coupled map lattice. (English summary) **2004h:37029**
Aulbach, Bernd On the subtle role of invertibility in discrete dynamics. (English summary) **2004j:37045**
Hegazi, A. S. *see* **Ahmed, Elsayed Mohamed, 2004h:37029**
Kaneko, Kunihiko *see* **Kataoka, Naoto, 2004g:37032**
Kataoka, Naoto (*with* Kaneko, Kunihiko) Dynamical networks in function dynamics. (English summary) **2004g:37032**
Li, Chunguang (*with* Xu, Hongbing; Liao, Xiao Feng; Yu, Juebang) Synchronization in small-world oscillator networks with coupling delays. (English summary) **2004m:37044**
— (*with* Li, Shao Wen; Liao, Xiao Feng; Yu, Juebang) Synchronization in coupled map lattices with small-world delayed interactions. (English summary) **2004m:37045**
Li, Shao Wen *see* **Li, Chunguang et al., 2004m:37045**
Liao, Xiao Feng *see* **Li, Chunguang et al., 2004m:37044** *and* **2004m:37045**
Lin, Wen-Wei (*with* Wang, Yi Qian) Chaotic synchronization in coupled map lattices with periodic boundary conditions. (English summary) **2004b:37045**
Nijmeijer, Henk *see* **Pogromsky, Alexander Yu. et al., 2004d:37038**
Pogromsky, Alexander Yu. (*with* Santoboni, Giovanni; Nijmeijer, Henk) Partial synchronization: from symmetry towards stability. (English summary) **2004d:37038**
Rulkov, Nikolai F. (*with* Afraimovich, Valentin S.) Detectability of nondifferentiable generalized synchrony. (English summary) **2004f:37034**
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Simó, Carles Computer assisted studies in dynamical systems. (English summary) **2004b:37046**
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Efremova, L. S. Set-valued functions and dynamics of skew products of interval maps. **2004b:37079**
van Gaans, Onno *see* **Lemmens, Bas, 2004g:15001**
Garay, Barnabas M. (*with* Hilger, Stefan) Embeddability of time scale dynamics in ode dynamics. (English summary) **2004c:34012**
Guíñez, Víctor *see* **Gutierrez, Carlos, 2004e:53006**
Gutierrez, Carlos (*with* Guíñez, Víctor) Simple umbilic points on surfaces immersed in $\mathbb{R}^4$. (English summary) **2004e:53006**
Hilger, Stefan *see* **Garay, Barnabas M., 2004c:34012**
Lemmens, Bas (*with* van Gaans, Onno) Iteration of linear p-norm nonexpansive maps. (English summary) **2004g:15001**
Marchuk, N. A. *see* **Teplīns′kiĭ, Yu. V., 2004j:39014**
Nussbaum, Roger D. Limiting profiles for solutions of differential-delay equations. (English summary) **2004m:34002**
Oh, Myunghyun Stability analysis for periodic solution waves in viscous conservation laws. (*see* **2004j:00016**)
Sanjurjo, José M. R. Morse equations and unstable manifolds of isolated invariant sets. (English summary) **2004d:37022**
Soto-Crespo, J. M. *see* **Akhmediev, Nail, 2004i:37147**
Teplīns′kiĭ, Yu. V. (*with* Marchuk, N. A.) On the Fréchet differentiability of invariant tori of countable systems of difference equations defined on infinite-dimensional tori. (Ukrainian. English and Ukrainian summaries) **2004j:39014**

37Dxx Dynamical systems with hyperbolic behavior

Hasselblatt, Boris Hyperbolic dynamical systems. **2004b:37047**

37D05 Hyperbolic orbits and sets

Cresson, Jacky Hyperbolicity, transversality and analytic first integrals. (English summary) **2004k:37049**
Dobrynskiĭ, V. A. Features peculiar to generalized hyperbolic attractors of two-to-one endomorphisms of the plane. (English summary) **2004b:37048**
Feng, Qingfu (*with* Zhang, Yong[5]) On Axiom A + no-cycles. (English summary) **2004d:37039**
Melbourne, Ian (*with* Nicol, Matthew) Stable transitivity of Euclidean group extensions. (English summary) **2004a:37034**
Nicol, Matthew *see* **Melbourne, Ian, 2004a:37034**
Zhang, Yong[5] *see* **Feng, Qingfu, 2004d:37039**

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Bonckaert, Patrick (*with* Naudot, Vincent; Yang, Jiazhong) Linearization of germs of hyperbolic vector fields. (English and French summaries) **2004b:37094**
Broer, Henk W. (*with* Hagen, Aaron; Vegter, Gert) Numerical approximation of normally hyperbolic invariant manifolds. (English summary) **2004i:37163**
Cresson, Jacky Symbolic dynamics and Arnold diffusion. (English summary) **2004d:37088**
Díaz, Lorenzo J. (*with* Rios, Isabel L.) Critical saddle-node horseshoes: bifurcations and entropy. (English summary) **2004m:37093**
Ferreira, Fernando Flávio (*with* Pinto, A. A.) Explosion of smoothness from a point to everywhere for conjugacies between diffeomorphisms on surfaces. (English summary) **2004e:37055**
Glendinning, Paul Hyperbolicity of the invariant set for the logistic map with $\mu > 4$. (English summary) **2004d:37054**
Hagen, Aaron *see* **Broer, Henk W. et al., 2004i:37163**
Han, Mao An (*with* Hu, Shouchuan; Liu, Xing Bo) On the stability of double homoclinic and heteroclinic cycles. (English summary) **2004a:34077**
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Ju, Ning (*with* Small, Des; Wiggins, Stephen) Existence and computation of hyperbolic trajectories of aperiodically time dependent vector fields and their approximations. (English summary) **2004e:37133**
Knieper, Gerhard (*with* Weiss, Howard N.) C^∞ genericity of positive topological entropy for geodesic flows on S^2. (English summary) **2004c:37051**
Kozlovskiĭ, Oleg Axiom A maps are dense in the space of unimodal maps in the C^k topology. (English summary) **2004b:37052**
Liu, Xing Bo *see* **Han, Mao An et al., 2004a:34077**
Moreira, Carlos Gustavo T. de A. (*with* Muñoz Morales, Eduardo M.) Sums of Cantor sets whose sum of dimensions is close to 1. (English summary) **2004g:37026**
Muñoz Morales, Eduardo M. *see* **Moreira, Carlos Gustavo T. de A., 2004g:37026**
Naudot, Vincent *see* **Bonckaert, Patrick et al., 2004b:37094**
Nusse, Helena E. (*with* Yorke, James A.) Characterizing the basins with the most entangled boundaries. (English summary) **2004g:37027**
Petrisor, Emilia Entry and exit sets in the dynamics of area preserving Hénon map. (English summary) **2004b:37106**
Pinto, A. A. *see* **Ferreira, Fernando Flávio, 2004e:37055**
Pollicott, Mark Stability of mixing rates for Axiom A attractors. (English summary) **2004i:37005**
Rams, Michał (*with* Simon, Károly) Hausdorff and packing measure for solenoids. (English summary) **2004a:37033**
Ren, Zhihua (*with* Yang, Jiazhong) On the C^1 normal forms of hyperbolic vector fields. (English and French summaries) **2004c:37099**
Rios, Isabel L. *see* **Díaz, Lorenzo J., 2004m:37093**
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Small, Des *see* **Ju, Ning et al., 2004e:37133**
Vegter, Gert *see* **Broer, Henk W. et al., 2004i:37163**
Weiss, Howard N. *see* **Knieper, Gerhard, 2004c:37051**
Wiggins, Stephen *see* **Ju, Ning et al., 2004e:37133**
Yang, Jiazhong *see* **Bonckaert, Patrick et al., 2004b:37094** *and* **Ren, Zhihua, 2004c:37099**
Yorke, James A. *see* **Nusse, Helena E., 2004g:37027**

37D10 Invariant manifold theory

Bonckaert, Patrick (*with* Fontich, Ernest) Invariant manifolds of maps close to a product of rotations: close to the rotation axis. (English summary) **2004f:37035**
Cabré, Xavier (*with* Fontich, Ernest; de la Llave, Rafael) The parameterization method for invariant manifolds. I. Manifolds associated to non-resonant subspaces. (English summary) **2004h:37030**
— (*with* Fontich, Ernest; de la Llave, Rafael) The parameterization method for invariant manifolds. II. Regularity with respect to parameters. (English summary) **2004h:37031**
Chaperon, Marc Invariant manifolds revisited. (English summary) **2004b:37049**
Chernov, V. L. A stable foliation to infinity in the phase space of the Hénon map. (English and Russian summaries) **2004f:37036**
Fontich, Ernest *see* **Bonckaert, Patrick, 2004f:37035**; **Cabré, Xavier et al., 2004h:37030** *and* **2004h:37031**
Ilyashenko, Yu. S. (*with* Saprykina, Maria) Embedding theorems for local families and oscillatory slow-fast systems. **2004c:37048**
de la Llave, Rafael *see* **Cabré, Xavier et al., 2004h:37030** *and* **2004h:37031**
Saprykina, Maria *see* **Ilyashenko, Yu. S., 2004c:37048**

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Abd El-Latif, G. M. On a problem of a field method and its applications to the non-linear vibrations. (English summary) **2004i:37044**
Ampilova, N. B. Construction of invariant manifolds of saddle periodic orbit for some plane endomorphism. (English summary) **2004c:37076**
Aulbach, Bernd On the subtle role of invertibility in discrete dynamics. (English summary) **2004j:37045**
— (*with* Wanner, Thomas) Invariant foliations for Carathéodory type differential equations in Banach spaces. **2004c:34169**
— (*with* Pötzsche, Christian) Invariant manifolds with asymptotic phase for nonautonomous difference equations. (English summary) **2004i:39002**
— (*with* Wanner, Thomas) Invariant foliations and decoupling of non-autonomous difference equations. (English summary) **2004e:39004**
Broer, Henk W. (*with* Hagen, Aaron; Vegter, Gert) Multiple purpose algorithms for invariant manifolds. (English summary) **2004c:37206**

Cantat, Serge Croissance des variétés instables. (English and French summaries) [Growth of unstable manifolds] **2004g:37059**
Duan, Jinqiao (*with* Lu, Kening; Schmalfuss, Björn) Invariant manifolds for stochastic partial differential equations. (English summary) **2004m:60136**
Grácio, Clara *see* **Mira, Christian**, **2004i:37043**
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Ide, Kayo *see* **Mancho, Ana M. et al.**, **2004f:37113**
Jin, Teisuke Unstable manifolds and the Yoccoz inequality for complex Hénon mappings. (English summary) **2004m:37085**
Krauskopf, Bernd (*with* Osinga, Hinke M.) Computing geodesic level sets on global (un)stable manifolds of vector fields. (English summary) **2004m:37162**
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Krisztin, Tibor A local unstable manifold for differential equations with state-dependent delay. (English summary) **2004d:34155**
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Mira, Christian (*with* Grácio, Clara) On the embedding of a $(p-1)$-dimensional noninvertible map into a p-dimensional invertible map ($p = 2, 3$). (English summary) **2004i:37043**
Mohammed, Salah-Eldin A. (*with* Scheutzow, Michael K. R.) The stable manifold theorem for non-linear stochastic systems with memory. II. The local stable manifold theorem. (English summary) **2004k:37102**
Osinga, Hinke M. Nonorientable manifolds in threee-dimensional vector fields. (English summary) **2004c:37038**
— *see also* **Krauskopf, Bernd**, **2004i:37042** *and* **2004m:37162**
Pötzsche, Christian Slow and fast variables in non-autonomous difference equations. (English summary) **2004h:39040**
— *see also* **Aulbach, Bernd**, **2004i:39002**
Sanjurjo, José M. R. Morse equations and unstable manifolds of isolated invariant sets. (English summary) **2004d:37022**
Scheutzow, Michael K. R. *see* **Mohammed, Salah-Eldin A.**, **2004k:37102**
Schmalfuss, Björn *see* **Duan, Jinqiao et al.**, **2004m:60136**
Small, Des *see* **Mancho, Ana M. et al.**, **2004f:37113**
Vegter, Gert *see* **Broer, Henk W. et al.**, **2004c:37206**
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37D15 Morse-Smale systems

Grines, V. Z. (*with* Medvedev, Vladislav; Zhuzhoma, E. V.) On existence of noncompact heteroclinic curves. (English summary) **2004h:37032**
Li, Ming-Chia Stability of parameterized Morse-Smale gradient-like flows. (English summary) **2004a:37035**
Medvedev, Vladislav *see* **Grines, V. Z. et al.**, **2004h:37032**
Pochinka, O. On topological conjugacy of simplest Morse-Smale diffeomorphisms on S^3 with the finite number of heteroclinic orbits. **2004b:37050**
Zhang, Xiao Xia[2] The improvement of horseshoe condition given by Jianyin Zhou and its application. (English summary) **2004i:37052**
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Lewowicz, Jorge (*with* Ures, Raul) On Smale diffeomorphisms close to pseudo-Anosov maps. (English summary) **2004h:37061**
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— The combinatorics of gradient-like flows and foliations on closed surfaces. I. Topological classification. (English summary) **2004b:37075**
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37D20 Uniformly hyperbolic systems (expanding, Anosov, Axiom A, etc.)

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Bishnani, Z. (*with* MacKay, Robert S.) Safety criteria for aperiodically forced systems. (English summary) **2004f:37037**
Brown, Richard J. Generating quadratic pseudo-Anosov homeomorphisms of closed surfaces. (English summary) **2004i:37053**
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Dekimpe, Karel (*with* Deschamps, Sandra) Anosov diffeomorphisms on a class of 2-step nilmanifolds. (English summary) **2004i:37054**
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Fang, Yong[1] Geometric Anosov flows of dimension 5. (English and French summaries) **2004b:37051**
— A remark about hyperbolic infranilautomorphisms. (English and French summaries) **2004c:37049**
Fernandez, Bastien (*with* Guiraud, P.) Route to chaotic synchronisation in coupled map lattices: rigorous results. (English summary) **2004k:37050**
Field, Michael (*with* Melbourne, Ian; Török, Andrei) Decay of correlations, central limit theorems and approximation by Brownian motion for compact Lie group extensions. (English summary) **2004m:37046**
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Jiang, Da-Quan (*with* Qian, Min; Qian, Min-Ping) Entropy production, information gain and Lyapunov exponents of random hyperbolic dynamical systems. (English summary) **2004m:37047**
Kalinin, Boris (*with* Sadovskaya, Victoria) On local and global rigidity of quasi-conformal Anosov diffeomorphisms. (English summary) **2004f:37038**
Kozlovskiĭ, Oleg Axiom A maps are dense in the space of unimodal maps in the C^k topology. (English summary) **2004b:37052**
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Lewowicz, Jorge On axiom A diffeomorphisms C^0-close to pseudo-Anosov maps. (English summary) **2004g:37034**
— ★ Dinámica de los homeomorfismos expansivos. (Spanish) [Dynamics of expansive homeomorphisms] **2004d:37040**
Liu, Pei-Dong (*with* Qian, Min; Zhao, Yang[2]) Large deviations in Axiom A endomorphisms. (English summary) **2004m:37048**
MacKay, Robert S. *see* **Bishnani, Z.**, **2004f:37037**
Margulis, Grigorii A. ★ On some aspects of the theory of Anosov systems. **2004m:37049**
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Pinto, A. A. (*with* Rand, David A.) Teichmüller spaces and HR structures for hyperbolic surface dynamics. (English summary) **2004i:37055**
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Sadovskaya, Victoria *see* **Kalinin, Boris**, **2004f:37038**
Sharp, Richard *see* **Margulis, Grigorii A.**, **2004m:37049** *and* **Pollicott, Mark**, **2004m:37050**
(Szulikowska, Valentina Vladimirovna) *see* **Margulis, Grigorii A.**, **2004m:37049**
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Barreira, Luis (*with* Saussol, Benoît; Schmeling, Jörg) Higher-dimensional multifractal analysis. (English summary) **2004g:37038**
— (*with* Wolf, Christian) Measures of maximal dimension for hyperbolic diffeomorphisms. (English summary) **2004e:37037**
Bercovici, Hari (*with* Niţică, Viorel) Cohomology of higher rank abelian Anosov actions for Banach algebra valued cocycles. (English summary) **2004k:37044**
Bonahon, Francis (*with* Sözen, Yaşar) Variation of the Liouville measure of a hyperbolic surface. (English summary) **2004e:37044**
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Cantat, Serge Croissance des variétés instables. (English and French summaries) [Growth of unstable manifolds] **2004g:37059**
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Dani, S. G. Some two-step and three-step nilpotent Lie groups with small automorphism groups. (English summary) **2004b:22010**
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Qian, Min (*with* Qian, Min-Ping; Xie, Jian-Sheng) Entropy formula for random dynamical systems: relations between entropy, exponents and dimension. (English summary) **2004m:37096**
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Su, Meiyu True laminations for complex Hénon maps. (English summary) **2004i:37098**
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37D25 Nonuniformly hyperbolic systems (Lyapunov exponents, Pesin theory, etc.)

Alves, José F. Stochastic behavior of asymptotically expanding maps. **2004f:37039**
— (*with* Luzzatto, Stefano; Pinheiro, Vilton) Markov structures for non-uniformly expanding maps on compact manifolds in arbitrary dimension. (English summary) **2004e:37043**
Avila, Artur (*with* Bochi, Jairo) A formula with some applications to the theory of Lyapunov exponents. (English summary) **2004a:37036**
Benedicks, Michael Errata: "Non uniformly hyperbolic dynamics: Hénon maps and related dynamical systems" [in *Proceedings of the International Congress of Mathematicians, Vol. III (Beijing, 2002)*, 255–264, Higher Ed. Press, Beijing, 2002; MR 2003m:37034]. (*see* **2004b:00013**)
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Buzzi, Jérôme The coding of non-uniformly expanding maps with application to endomorphisms of $\mathbf{CP}^k$. (English summary) **2004f:37040**
Liu, Pei-Dong Ruelle inequality relating entropy, folding entropy and negative Lyapunov exponents. (English summary) **2004g:37036**
Luzzatto, Stefano *see* **Alves, José F. et al., 2004e:37043**
Nicol, Matthew (*with* Scott, Andrew David) Livšic theorems and stable ergodicity for group extensions of hyperbolic systems with discontinuities. (English summary) **2004k:37051**
Pinheiro, Vilton *see* **Alves, José F. et al., 2004e:37043**
Roy, Mario (*with* Urbański, Mariusz) Conformal families of measures for fibred systems. (English summary) **2004i:37056**
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Bruin, Henk (*with* Vaienti, Sandro) Return time statistics for unimodal maps. (English summary) **2004d:37050**
Ferrero, Pierre Robert (*with* Haydn, Nicolai; Vaienti, Sandro) Entropy fluctuations for parabolic maps. (English summary) **2004d:37009**
Galatolo, Stefano Complexity, initial condition sensitivity, dimension and weak chaos in dynamical systems. (English summary) **2004f:37020**
Haydn, Nicolai *see* **Ferrero, Pierre Robert et al., 2004d:37009**
Hirayama, Michihiro Periodic probability measures are dense in the set of invariant measures. (English summary) **2004a:37032**
Isola, Stefano On systems with finite ergodic degree. (English summary) **2004g:37006**
Jonsson, Mattias (*with* Varolin, Dror) Stable manifolds of holomorphic diffeomorphisms. **2004h:37066**
Melbourne, Ian (*with* Nicol, Matthew) Stable transitivity of Euclidean group extensions. (English summary) **2004a:37034**
Nicol, Matthew *see* **Melbourne, Ian, 2004a:37034**
Rosas Meneses, Vladimir A. *see* **Ruggiero, Rafael Oswaldo, 2004h:37036**
Ruelle, David Perturbation theory for Lyapunov exponents of a toral map: extension of a result of Shub and Wilkinson. (English summary) **2004b:37054**
Ruggiero, Rafael Oswaldo (*with* Rosas Meneses, Vladimir A.) On the Pesin set of expansive geodesic flows in manifolds with no conjugate points. (English summary) **2004h:37036**
Sánchez-Salas, Fernando J. Dimension of Markov towers for non uniformly expanding one-dimensional systems. (English summary) **2004i:37045**
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37D30 Partially hyperbolic systems and dominated splittings

Arroyo, Aubin (*with* Rodriguez Hertz, Federico) Homoclinic bifurcations and uniform hyperbolicity for three-dimensional flows. (English and French summaries) **2004j:37047**
Baraviera, Alexandre T. (*with* Bonatti, Christian) Removing zero Lyapunov exponents. (English summary) **2004k:37052**
Bonatti, Christian (*with* Gómez-Mont, Xavier; Viana, Marcelo) Généricité d'exposants de Lyapunov non-nuls pour des produits déterministes de matrices. (English and French summaries) [Genericity of non-zero Lyapunov exponents for deterministic products of matrices] **2004f:37041**
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Brin, Michael On dynamical coherence. (English summary) **2004a:37037**
Burslem, Lizzie Centralizers of partially hyperbolic diffeomorphisms. (English summary) **2004m:37051**
Gómez-Mont, Xavier *see* **Bonatti, Christian et al., 2004f:37041**
Morales, Carlos Singular-hyperbolic sets and topological dimension. (English summary) **2004g:37037**
Rayskin, Victoria Multidimensional singular λ-lemma. (English summary) **2004b:37053**
Rodriguez Hertz, Federico *see* **Arroyo, Aubin, 2004j:37047**
Ruelle, David Perturbation theory for Lyapunov exponents of a toral map: extension of a result of Shub and Wilkinson. (English summary) **2004b:37054**
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— (*with* Avila, Artur; Bochi, Jairo) Robust transitivity and topological mixing for C^1-flows. (English summary) **2004m:37032**

Arnaud, Marie-Claude Approximation des ensembles ω-limites des difféomorphismes par des orbites périodiques. (English and French summaries) [Approximation of ω-limit sets of diffeomorphisms by periodic orbits] **2004e:37028**
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Burns, Keith (*with* Pollicott, Mark) Stable ergodicity and frame flows. (English summary) **2004h:37034**
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Field, Michael Persistent ergodicity and stably ergodic SRB attractors in equivariant dynamics. (English summary) **2004j:37041**
Olsen, Lars Ole Rønnow Distribution of digits in integers: Besicovitch-Eggleston subsets of $\mathbb{N}$. (English summary) **2004c:11136**
Pollicott, Mark *see* **Burns, Keith, 2004h:37034**
Pujals, E. R. Tangent bundles dynamics and its consequences. (English summary) **2004c:37036**
Viana, Marcelo ★ Lecture notes on attractors and physical measures. **2004g:37023**
Vivier, Thérèse Flots robustement transitifs sur les variétés compactes. (English and French summaries) [Robustly transitive flows on compact manifolds] **2004j:37037**

37D35 Thermodynamic formalism, variational principles, equilibrium states

Antonevich, Anatoliĭ Borisovich (*with* Bakhtin, V. I.; Lebedev, Andreĭ Vladimirovich; Sarazhinskiĭ, D. S.) Legendre analysis, thermodynamic formalism, and the spectra of Perron-Frobenius operators. (Russian) **2004m:37052**
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Barreira, Luis (*with* Saussol, Benoît; Schmeling, Jörg) Higher-dimensional multifractal analysis. (English summary) **2004g:37038**
Buzzi, Jérôme (*with* Sarig, Omri) Uniqueness of equilibrium measures for countable Markov shifts and multidimensional piecewise expanding maps. (English summary) **2004k:37053**
Feng, De-Jun (*with* Olivier, Eric) Multifractal analysis of weak Gibbs measures and phase transition—application to some Bernoulli convolutions. (English summary) **2004m:37053**
— The variational principle for products of non-negative matrices. (English summary) **2004k:37054**
Fiebig, Doris (*with* Fiebig, Ulf-Rainer; Yuri, Michiko) Pressure and equilibrium states for countable state Markov shifts. (English summary) **2004b:37055**
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Sarig, Omri Existence of Gibbs measures for countable Markov shifts. (English summary) **2004b:37056**
— *see also* **Buzzi, Jérôme, 2004k:37053**
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Barreira, Luis (*with* Wolf, Christian) Measures of maximal dimension for hyperbolic diffeomorphisms. (English summary) **2004e:37037**
— Dimension estimates in nonconformal hyperbolic dynamics. (English summary) **2004i:37046**
Blank, Michael (*with* Bunimovich, Leonid) Multicomponent dynamical systems: SRB measures and phase transitions. (English summary) **2004c:37015**
Brémont, Julien Gibbs measures at temperature zero. (English summary) **2004e:37018**
Bunimovich, Leonid *see* **Blank, Michael, 2004c:37015** *and* **Stoop, Ruedi et al.**
Gonzalez, Luis Felipe *see* **Jenkinson, Oliver et al., 2004d:37032**
Gurevich, B. M. (*with* Tempel′man, A. A.) On sets of time and space means for continuous functions on a configuration space. (Russian) **2004g:37011**
Hofbauer, Franz (*with* Raith, Peter; Steinberger, Thomas) Multifractal dimensions for invariant subsets of piecewise monotonic interval maps. (English summary) **2004e:37039**
Isola, Stefano On systems with finite ergodic degree. (English summary) **2004g:37006**
Jenkinson, Oliver (*with* Gonzalez, Luis Felipe; Urbański, Mariusz) On transfer operators for continued fractions with restricted digits. **2004d:37032**
Käenmäki, Antti ★ Iterated function systems: natural measure and local structure. **2004i:37047**
Lee, Hung Hwan *see* **Lee, Mi Ryeong, 2004f:37028**
Lee, Mi Ryeong (*with* Lee, Hung Hwan) Correlation dimensions of Cantor-like sets. (English summary) **2004f:37028**
Makarov, Nikolai G. (*with* Smirnov, Stanislav K.) On thermodynamics of rational maps. II. Non-recurrent maps. (English summary) **2004e:37067**
Maume-Deschamps, Véronique (*with* Schmitt, Bernard; Urbański, Mariusz; Zdunik, Anna) Pressure and recurrence. (English summary) **2004m:37006**
Mesón, Alejandro M. (*with* Vericat, Fernando) Dimension theory and Fuchsian groups. (English summary) **2004k:37034**
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37D40 Dynamical systems of geometric origin and hyperbolicity (geodesic and horocycle flows, etc.)

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37Exx Low-dimensional dynamical systems

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(Devaney, Robert L.) *see* **Dedicated to Professor Alexander N. Sharkovsky on the occasion of his 65th birthday**
(Reich, Ludwig) *see* **Dynamical systems and functional equations**
(Sharkovs'kiĭ, Aleksandr) *see* **Dedicated to Professor Alexander N. Sharkovsky on the occasion of his 65th birthday**
(Smítal, Jaroslav) *see* **Dynamical systems and functional equations**

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Conference:
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37E10 Maps of the circle

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Bae, Jong Sook *see* **Yang, Seung Kab et al.**, **2004a:37050**
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Ciepliński, Krzysztof (*with* Zdun, Marek Cezary) On semi-conjugacy equation for homeomorphisms of the circle. (English summary) **2004g:37049**
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Kim, Dong Han (*with* Seo, Byoung Ki) The waiting time for irrational rotations. (English summary) **2004g:37050**
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Alikhani-Koopaei, Aliasghar On common fixed points, periodic points, and recurrent points of continuous functions. (English summary) **2004g:54048**
Alsedà, Lluís (*with* Falcó, A.) On the topological dynamics and phase-locking renormalization of Lorenz-like maps. (English and French summaries) **2004i:37074**
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Farb, Benson (*with* Franks, John) Groups of homeomorphisms of one-manifolds. III. Nilpotent subgroups. (English summary) **2004k:58013**
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Solarz, Paweł On some iterative roots on the circle. (English summary) **2004h:39053**
Souza, Rafael R. Sub-actions for weakly hyperbolic one-dimensional systems. (English summary) **2004e:37049**
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37E15 Combinatorial dynamics (types of periodic orbits)

Bernhardt, Chris Time-symmetric cycles. (English summary) **2004g:37053**
Du, Bau-Sen (*with* Li, Ming-Chia) A refinement of Sharkovskiĭ's theorem on orbit types characterized by two parameters. (English summary) **2004a:37051**
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Cleveland, Christopher Rotation sets for unimodal maps of the interval. (English summary) **2004f:37050**
Coven, Ethan M. *see* **Block, Louis et al.**, **2004j:37066**
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Kwapisz, Jarosław Combinatorics of torus diffeomorphisms. (English summary) **2004b:37078**
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Misiurewicz, Michał Permutations and topological entropy for interval maps. (English summary) **2004d:37057**
Mochko, E. (*with* Nekrashevych, Volodymyr V.; Sushchans'kiĭ, V. Ī.) Dynamics of triangular transformations of sequences over finite alphabets. (Russian) **2004c:37024**
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Oliveira, Henrique Manuel (*with* Sousa Ramos, José) Symbolic dynamics of the tangent map. (English summary) **2004h:37068**
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37E20 Universality, renormalization [see also 37F25]

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37E25 Maps of trees and graphs

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37E30 Homeomorphisms and diffeomorphisms of planes and surfaces

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Chung, Yong Moo (*with* Hirayama, Michihiro) Topological entropy and periodic orbits of saddle type for surface diffeomorphisms. (English summary) **2004g:37055**
Deane, J. H. B. Global attraction in the sigma-delta modulator piecewise isometry. (English summary) **2004d:37062**
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– The combinatorics of gradient-like flows and foliations on closed surfaces. III. The problem of realization and some estimates. (English, Russian and Ukrainian summaries) **2004c:37079**
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37E35 Flows on surfaces

Anosov, D. V. (*with* Zhuzhoma, E. V.) Asymptotic behavior of covering curves on the universal coverings of surfaces. (Russian. Russian summary) **2004f:37058**
Aranson, Samuil Khaimovich (*with* Zhuzhoma, E. V.) On the asymptotic directions of semitrajectories of analytic flows on surfaces. (Russian) **2004c:37080**
— (*with* Grines, V. Z.; Kaimanovich, V. A.) Classification of supertransitive 2-webs on surfaces. (English summary) **2004f:37059**
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Grines, V. Z. *see* **Aranson, Samuil Khaimovich et al., 2004f:37059**
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Plakhta, L. P. The combinatorics of gradient-like flows and foliations on closed surfaces. I. Topological classification. (English summary) **2004b:37075**
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— *see also* **Jiménez López, Víctor, 2004e:37057**
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37E40 Twist maps

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— On the existence of a new type of periodic and quasi-periodic orbits for twist maps of the torus. (English summary) **2004b:37076**
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Crovisier, Sylvain Ensembles de torsion nulle des applications déviant la verticale. (English and French summaries) [Twist-free sets of twist maps] **2004g:37057**
Dragunov, T. N. *see* **Morozov, A. D. et al., 2004d:37063**
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Oliveira, Fernando F. Extending circle mappings to the annulus. (English summary) **2004g:37058**
Richeson, David (*with* Wiseman, James) Bounded homeomorphisms of the open annulus. (English summary) **2004j:37079**
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Golé, Christophe ★ Symplectic twist maps. **2004f:37070**
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37E45 Rotation numbers and vectors

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Franks, John Rotation numbers and instability sets. (English summary) **2004h:37063**
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Golé, Christophe ★ Symplectic twist maps. **2004f:37070**
Grines, V. Z. *see* **Aranson, Samuil Khaimovich et al., 2004f:37059**
Grotta Ragazzo, Clodoaldo *see* **Addas-Zanata, Salvador, 2004c:37081**
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Rozo, Gabriel S. (*with* Zuleta, Edgar; Polanía, Luis A.) Farey tree and dynamics of the circle map. (Spanish. English and Spanish summaries) **2004g:37052**
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Ashwin, Peter (*with* Fu, Xin-Chu; Deane, J. H. B.) Properties of the invariant disk packing in a model bandpass sigma-delta modulator. (English summary) **2004d:37064**
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— (*with* Gardini, Laura; Mira, Christian) Plane maps with denominator. II. Noninvertible maps with simple focal points. (English summary) **2004i:37090**
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Deane, J. H. B. *see* **Ashwin, Peter et al., 2004d:37064**
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Grines, V. Z. (*with* Medvedev, Vladislav; Zhuzhoma, E. V.) On existence of noncompact heteroclinic curves. (English summary) **2004h:37032**
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Gutkin, Eugene (*with* Hubert, Pascal; Schmidt, Thomas A.) Affine diffeomorphisms of translation surfaces: periodic points, Fuchsian groups, and arithmeticity. (English and French summaries) **2004m:37042**
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Hubert, Pascal *see* **Gutkin, Eugene et al., 2004m:37042**
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Kupka, Jiří Triangular maps with the chain recurrent points periodic. (English summary) **2004k:37023**
Linero, A. *see* **Balibrea Gallego, Francisco et al., 2004i:37011**
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Maĭstrenko, V. L. (*with* Maĭstrenko, Yurīĭ L.; Mosekilde, Erik) Torus breakdown in noninvertible maps. (English summary) **2004c:37109**
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Maltsev, Andrei Ya. (*with* Novikov, Sergeĭ Petrovich) Quasiperiodic functions and dynamical systems in quantum solid state physics. (English summary) **2004k:37188**
Medvedev, Vladislav *see* **Grines, V. Z. et al., 2004h:37032** *and* **Zhuzhoma, E. V., 2004k:37040**
Meiss, J. D. *see* **Lomelí, H. E., 2004m:37099**
Mira, Christian (*with* Gardini, Laura; Barugola, Alexandra; Cathala, Jean-Claude) ★ Chaotic dynamics in two-dimensional noninvertible maps. **2004m:82078**
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Mroz, Lukas *see* **Bischi, Gian Italo et al., 2004d:37150**
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Oberste-Vorth, Ralph W. Horseshoes among Hénon mappings. (English summary) (*see* **2004i:00008**)
Ovsyannikov, I. I. *see* **Gonchenko, V. S., 2004k:37097**
Pinto de Carvalho, Sônia *see* **Carneiro, Mário Jorge Dias et al., 2004f:37069**
Plaza S., Sergio ★ Fractales y generación computacional de imágenes. (Spanish) [Fractals and computer generation of images] **2004f:28017**
Pochinka, O. On topological conjugacy of simplest Morse-Smale diffeomorphisms on S^3 with the finite number of heteroclinic orbits. **2004b:37050**
Puu, Tönu *see* **Sushko, Irina M. et al., 2004k:37194**
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Robbin, Joel W. *see* **Gautschi, Ralf et al., 2004m:57065**
Rodriguez Hertz, Federico *see* **Arroyo, Aubin, 2004j:37047**
Rossi, Luca Dottorando *see* **Hu, Hu Yi et al., 2004m:37013**
Rybalko, Sergei *see* **Loskutov, A. Yu., 2004j:37056**
Salamon, Dietmar A. *see* **Gautschi, Ralf et al., 2004m:57065**
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de Spinadel, Vera W. Nonlinearity and the metallic means family. (English summary) **2004d:37048**
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Sushko, Irina M. (*with* Gardini, Laura; Puu, Tönu) Tongues of periodicity in a family of two-dimensional discontinuous maps of areal Möbius type. (English summary) **2004k:37194**
Tan, Ning (*with* Chen, Yong Hong[2]; Xu, Jian Xue) A special bifurcation of riddled basin in two coupled skew tent maps. (English summary) **2004e:37075**
Trelina, L. A. Dynamical units of number fields and squares as products of periodic points. (Russian. English and Russian summaries) **2004f:11123**
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Wang, Shicheng Non-zero degree maps between 3-manifolds. (English summary) **2004a:57024**
Wurm, A. *see* **Apte, Amit S. et al., 2004d:37060**
Xu, Jian Xue *see* **Tan, Ning et al., 2004e:37075**
Yamaguchi, Masaru Periodic solutions of nonlinear equations of string with periodically oscillating boundaries. **2004i:35232**
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37Fxx Complex dynamical systems [see also 30D05, 32H50]

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Cerveau, Dominique (*with* Ghys, Étienne; Sibony, Nessim; Yoccoz, Jean-Christophe) ★ Complex dynamics and geometry. **2004f:37002**
(Flexor, Marguerite) *see* **Cerveau, Dominique et al., 2004f:37002**
Ghys, Étienne *see* **Cerveau, Dominique et al., 2004f:37002**
(Kay, Leslie) *see* **Cerveau, Dominique et al., 2004f:37002**
Sibony, Nessim *see* **Cerveau, Dominique et al., 2004f:37002**
Yoccoz, Jean-Christophe *see* **Cerveau, Dominique et al., 2004f:37002**

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Complex dynamics and geometry *see* **Cerveau, Dominique et al., 2004f:37002**
Lyon *see* **Cerveau, Dominique et al., 2004f:37002**
Meeting:
State of the Art of the Research of the Société Mathématique de France *see* **Cerveau, Dominique et al., 2004f:37002**

37F05 Relations and correspondences

Bonifant, Araceli M. (*with* Dabija, Marius) Contractive curves. (English summary) **2004i:37091**
Bullett, Shaun (*with* Freiberger, Marianne) Hecke groups, polynomial maps and matings. (English summary) **2004k:37087**
Dabija, Marius *see* **Bonifant, Araceli M., 2004i:37091**
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37F10 Polynomials; rational maps; entire and meromorphic functions [see also 32A10, 32A20, 32H02, 32H04]

Arteaga, Carlos On a theorem of Ritt for commuting finite Blaschke products. (English summary) **2004e:37060**
Bao, Yuan Sheng Some dynamical properties of periodic entire functions of order one. (Chinese. English and Chinese summaries) **2004e:37061**
Berker, Selim (*with* Epstein, Adam Lawrence; Pilgrim, Kevin M.) Remarks on the period three cycles of quadratic rational maps. (English summary) **2004b:37085**
Boukraa, S. (*with* Hassani, Saoud; Maillard, Jean-Marie[1]) Noetherian mappings. (English summary) **2004m:37081**
Boyd, David A. The immediate basin of attraction of infinity for polynomial semigroups of finite type. (English summary) **2004j:37081**
Brown, J. I. (*with* Hickman, C. A.; Nowakowski, Richard J.) The independence fractal of a graph. (English summary) **2004d:37066**
Buff, Xavier (*with* Henriksen, Christian) On König's root-finding algorithms. (English summary) **2004c:37086**
— Virtually repelling fixed points. (English summary) **2004k:37088**
Cantat, Serge Croissance des variétés instables. (English and French summaries) [Growth of unstable manifolds] **2004g:37059**
Chaitin-Chatelin, F. (*with* Meškauskas, T.) Computation with hypercomplex numbers. (English summary) **2004e:37062**
Chung, K. W. (*with* Wang, Bennan) Tessellations with symmetries of the triangle groups from dynamics. (English summary) **2004m:37082**
Comerford, Mark Conjugacy and counterexample in random iteration. (English summary) **2004j:37082**
Crass, Scott Solving the octic by iteration in six dimensions. (English summary) **2004b:37086**
Devaney, Robert L. (*with* Josić, Krešimir; Shapiro, Yakov) Singular perturbations of quadratic maps. (English summary) **2004k:37089**
— Cantor and Sierpinski, Julia and Fatou: complex topology meets complex dynamics. **2004i:37092**
Dinh, Tien-Cuong Ensembles d'unicité pour les polynômes. (English and French summaries) [Uniqueness sets for polynomials] **2004b:37087**
— (*with* Sibony, Nessim) Dynamique des applications d'allure polynomiale. (English and French summaries) [Dynamics of polynomial-like mappings] **2004e:37063**
Drakopoulos, V. Are there any Julia sets for the Laguerre iteration function? (English summary) **2004i:37093**
Eguchi, Mitsuaki *see* **Takenawa, Tomoyuki et al., 2004a:37055**
Emerson, Nathaniel D. Dynamics of polynomials with disconnected Julia sets. (English summary) **2004m:37083**
Epstein, Adam Lawrence *see* **Berker, Selim et al., 2004b:37085**
Fagella, Núria (*with* Garijo, Antonio) Capture zones of the family of functions $\lambda z^m \exp(z)$. (English summary) **2004h:37065**
Fornæss, John Erik Sustainable dynamical systems. (English summary) **2004m:37084**
Garijo, Antonio *see* **Fagella, Núria, 2004h:37065**
Gong, Zhi-min *see* **Yang, Wei-feng**
Grammaticos, Basile *see* **Takenawa, Tomoyuki et al., 2004a:37055**
Hamilton, D. H. Siegel disks and geometric function theory in the work of Yoccoz. **2004e:37064**
Hassani, Saoud *see* **Boukraa, S. et al., 2004m:37081**
Hawkins, Jane Lebesgue ergodic rational maps in parameter space. (English summary) **2004e:37065**
Henriksen, Christian The combinatorial rigidity conjecture is false for cubic polynomials. (English summary) **2004c:37087**
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Hua, Xinhou (*with* Wang, Xiao-ling) Dynamics of permutable transcendental entire functions. (English summary) **2004c:37088**
Hugues Salas, O. Generalized hypercomplex iterations—one and two cycles and their stability. (English summary)
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Jonsson, Mattias (*with* Varolin, Dror) Stable manifolds of holomorphic diffeomorphisms. **2004h:37066**
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Kawahira, Tomoki Semiconjugacies between the Julia sets of geometrically finite rational maps. (English summary) **2004e:37066**
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Kriete, Hartje Holomorphic motions in the parameter space for the relaxed Newton's method. (English summary) **2004f:37060**

Levin, Genadi M. On explicit connections between dynamical and parameter spaces. (English summary) **2004m:37086**
Li, Chong[1] *see* **Wang, Heyu et al., 2004g:37060**
Liao, Liangwen (*with* Yang, Chung-Chun) Julia sets of two permutable entire functions. (English summary) **2004i:37094**
Lü, Jing (*with* Qiu, Wei Yuan) Connectivity of Julia sets for even quartic polynomials. (Chinese. English and Chinese summaries) **2004h:37067**
Maillard, Jean-Marie[1] *see* **Boukraa, S. et al., 2004m:37081**
Makarov, Nikolai G. (*with* Smirnov, Stanislav K.) On thermodynamics of rational maps. II. Non-recurrent maps. (English summary) **2004e:37067**
Martin, Gaven J. (*with* Mayer, Volker) Rigidity in holomorphic and quasiregular dynamics. (English summary) **2004i:37095**
Mayer, Volker *see* **Martin, Gaven J., 2004i:37095**
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Nowakowski, Richard J. *see* **Brown, J. I. et al., 2004d:37066**
Ohta, Yasuhiro *see* **Takenawa, Tomoyuki et al., 2004a:37055**
Oliveira, Henrique Manuel (*with* Sousa Ramos, José) Symbolic dynamics of the tangent map. (English summary) **2004h:37068**
Pavićević, Žarko (*with* Šušić, Jela) Application of the cyclic properties of dynamical systems to the study of boundary limits of arbitrary functions. (Russian) **2004f:37061**
Pilgrim, Kevin M. ★ Combinations of complex dynamical systems. **2004m:37087**
— *see also* **Berker, Selim et al., 2004b:37085**
Plaza S., Sergio (*with* Vergara, Vicente) Existence of attracting periodic orbits for the Newton method. (English summary) **2004d:37067**
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37F15 Expanding maps; hyperbolicity; structural stability

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37F20 Combinatorics and topology

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37F25 Renormalization

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37F30 Quasiconformal methods and Teichmüller theory; Fuchsian and Kleinian groups as dynamical systems

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37F35 Conformal densities and Hausdorff dimension

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Stallard, Gwyneth M. Dimensions of Julia sets of hyperbolic entire functions. (English summary) **2004k:37093**
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Zakeri, Saeed External rays and the real slice of the Mandelbrot set. (English summary) **2004a:37057**
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37F40 Geometric limits

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37F45 Holomorphic families of dynamical systems; the Mandelbrot set; bifurcations

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Fu, Chong *see* **Chi, Dong Xuan et al.**
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37F50 Small divisors, rotation domains and linearization; Fatou and Julia sets

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37F75 Holomorphic foliations and vector fields [see also 32M25, 32S65, 34Mxx]

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Chazal, Frédéric Analytic Rolle foliations: global and local structure. (Spanish) **2004b:37093**
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— ★ Sobre a teoria global das folheações holomorfas. (Portuguese) [The global theory of holomorphic foliations] **2004j:32033**
Ballico, Edoardo On linear systems induced by the singularities of a meromorphic foliation of $\mathbf{CP}^2$. (English summary)
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Christopher, Colin (*with* Mardešić, Pavao; Rousseau, Christiane) Normalizable, integrable, and linearizable saddle points for complex quadratic systems in $\mathbb{C}^2$. (English summary) **2004d:37072**
Esteves, Eduardo (*with* Kleiman, Steven L.) Bounds on leaves of one-dimensional foliations. (English summary) **2004m:32060**
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Klehn, Oliver On the index of a vector field tangent to a hypersurface with non-isolated zero in the embedding space. (English summary) **2004i:32051**
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Lins Neto, Alcides Foliations on $\mathbb{C}\mathrm{P}(2)$ with invariant algebraic curve and radial singularities. (Portuguese. English summary) **2004a:32049**
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Mendes, Luis Gustavo (*with* Sad, Paulo) On dicritical foliations and Halphen pencils. (English summary) **2004d:32045**
Moura, Claire On controllable analytic systems. (Spanish) **2004d:32026**
Olivares-Vázquez, J. Germs of vector fields in $\mathbf{C}^n$ without a separatrix. (Spanish) **2004a:32034**
Pan, Ivan Quelques remarques sur les d-web des surfaces complexes et un problème proposé par D. Cerveau. (French summary) [Some remarks on d-webs of complex surfaces and a problem posed by D. Cerveau] **2004k:32052**
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37Gxx Local and nonlocal bifurcation theory [see also 34C23, 34K18]

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(Buescu, Jorge) *see* **Bifurcation, symmetry and patterns, 2004e:37003**
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Lamarque, Claude-Henri *see* **Awrejcewicz, Jan, 2004j:70045**
Luo, Dingjun (*with* Wang, Xian; Zhu, De Ming; Han, Mao An) ★ Bifurcation theory and methods of dynamical systems. **2004g:37001**
Mosekilde, Erik *see* **Zhusubaliev, Zh. T., 2004g:37044**
Orrell, David (*with* Smith, Leonard A.) Visualizing bifurcations in high dimensional systems: the spectral bifurcation diagram. (English summary)
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37G05 Normal forms

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Kopanskiĭ, A. Ya. Smooth normalization of a vector field near an invariant manifold. (English summary) **2004j:37091**
Lamb, J. S. W. *see* **Hoveijn, I. et al., 2004e:37073**
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Naudot, Vincent *see* **Bonckaert, Patrick et al., 2004b:37094**
Palacián, Jesús Invariant manifolds of an autonomous ordinary differential equation from its generalized normal forms. (English summary) **2004k:37094**
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Costa, Maria João Chaotic behaviour of one-dimensional saddle-node horseshoes. (English summary) **2004b:37069**
Cresson, Jacky Obstruction à la linéarisation des champs de vecteurs polynomiaux. (English and French summaries) [Obstruction to the linearization of polynomial vector fields] **2004d:34088**
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37G20 Hyperbolic singular points with homoclinic trajectories

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Jin, Yin Lai (*with* Zhu, De Ming; Zheng, Qing Yu) Bifurcations of rough 3-point-loop with higher dimensions. (English summary) **2004b:37097**
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Rodríguez-Luis, Alejandro J. *see* **Algaba, Antonio et al., 2004d:37073**
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Austin, James C. (*with* Healey, Jonathan J.) Time series analysis of homoclinic nonlinear systems using a wavelet transform method. (English summary) **2004m:37159**
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Jing, Zhu-jun *see* **Li, Wei et al., 2004d:37031**
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Li, Wei (*with* Jing, Zhu-jun; Xu, Peng-cheng) The existence of Silnikov's orbits in one coupled Duffing equation. (English summary) **2004d:37031**
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Mora, Leonardo Homoclinic bifurcations, fat attractors and invariant curves. (English summary) **2004k:37061**
Palacios, Antonio Heteroclinic cycles in coupled systems of difference equations. (English summary) **2004c:37043**
Pederson, Steven M. On homoclinic tangencies in maps with entropy-carrying horseshoes. (English summary) **2004d:37058**
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37G25 Bifurcations connected with nontransversal intersection

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Gonchenko, S. V. (*with* Shil′nikov, L. P.; Stenkin, O. V.) On Newhouse regions with infinitely many stable and unstable invariant tori. **2004a:37060**
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Mora, Leonardo Homoclinic bifurcations, fat attractors and invariant curves. (English summary) **2004k:37061**
Moreira, Carlos Gustavo T. de A. (*with* Muñoz Morales, Eduardo M.) Sums of Cantor sets whose sum of dimensions is close to 1. (English summary) **2004g:37026**
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Pederson, Steven M. Non-turning Poincaré map and homoclinic tangencies in interval maps with non-constant topological entropy. (English summary) **2004e:37053**
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37G30 Infinite nonwandering sets arising in bifurcations

Items with secondary classifications in 37G30

Labarca, Rafael ★ Dinámica y bifurcaciones de aplicaciones del intervalo. (Spanish) [Dynamics and bifurcations of map intervals] **2004g:37047**

37G35 Attractors and their bifurcations

Agliari, Anna Global bifurcations in the basins of attraction in noninvertible maps and economic applications. (English summary) **2004c:37108**
Chen, Yong Hong[2] *see* **Tan, Ning et al., 2004e:37075**
Glendinning, Paul Non-smooth pitchfork bifurcations. (English summary) **2004j:37095**
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Kapitaniak, Tomasz (*with* Maĭstrenko, Yurīĭ L.; Grebogi, Celso) Bubbling and riddling of higher-dimensional attractors. (English summary) **2004a:37061**
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"Determinism is not a curse. Examples of stationary strongly dependent processes whose density can be estimated with optimal i.i.d. rate" Erratum: "Determinism is not a curse. Examples of stationary strongly dependent processes whose density can be estimated with optimal i.i.d. rate" [J. Nonparametr. Stat. **15** (2003), no. 4-5, 479–483] by S. Lardjane.

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37H20 Bifurcation theory [see also 37Gxx]

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37H99 None of the above, but in this section

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37Jxx Finite-dimensional Hamiltonian, Lagrangian, contact, and nonholonomic systems [see also 53Dxx, 70Fxx, 70Hxx]

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37Kxx Infinite-dimensional Hamiltonian systems [see also 35Axx, 35Qxx]

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(Manton, Nicholas S.) *see* **Integrability, topological solitons and beyond**

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37K05 Hamiltonian structures, symmetries, variational principles, conservation laws

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37K10 Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.)

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37K45 Stability problems

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37K65 Hamiltonian systems on groups of diffeomorphisms and on manifolds of mappings and metrics

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37K99 None of the above, but in this section

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37Lxx Infinite-dimensional dissipative dynamical systems [see also 35Bxx, 35Qxx]

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37L05 General theory, nonlinear semigroups, evolution equations

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Ham, YoonMee Global coupling of an interface problem in an activator-inhibitor system. (English summary) **2004i:35321**
Jendoubi, Mohamed Ali (*with* Poláčik, P.) Non-stabilizing solutions of semilinear hyperbolic and elliptic equations with damping. (English summary) **2004k:35029**
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Kukavica, Igor Spatial complexity of solutions of higher order partial differential equations. (English summary) **2004k:35327**
Li, Y. Charles ★ Chaos in partial differential equations. **2004k:37003**
Łukaszewicz, Grzegorz (*with* Ortega-Torres, E. E.; Rojas-Medar, Marko A.) Strong periodic solutions for a class of abstract evolution equations. (English summary) **2004d:34129**
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37L10 Normal forms, center manifold theory, bifurcation theory

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— *see also* **Cheban, David N. et al., 2004e:34090**; **Caraballo Garrido, Tomás et al., 2004i:34025** *and* **Li, De Sheng[2], 2004m:37025**
Koksch, Norbert (*with* Siegmund, Stefan) Cone invariance and squeezing properties for inertial manifolds for nonautonomous evolution equations. (English summary) **2004d:37130**
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Titi, Edriss S. *see* **Il′in, Alekseĭ A., 2004i:35036** *and* **Olson, Eric, 2004k:76059**
Tucker, John R. Attractors and kernels: linking nonlinear PDE semigroups to harmonic analysis state-space decomposition. (English summary) **2004e:35024**
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Zgliczyński, Piotr Attracting fixed points for the Kuramoto-Sivashinsky equation: a computer assisted proof. (English summary) **2004c:35030**
Zhou, Sheng-Fan Attractors for first order dissipative lattice dynamical systems. (English summary) **2004b:37178**
Ziane, Mohammed *see* **Hoff, David, 2004f:35136**

37L40 Invariant measures

Items with secondary classifications in 37L40

Lasota, Andrzej (*with* Szarek, Tomasz) Dimension of measures invariant with respect to the Ważewska partial differential equation. (English summary) **2004k:35048**
Szarek, Tomasz *see* **Lasota, Andrzej, 2004k:35048**

37L45 Hyperbolicity; Lyapunov functions

Items with secondary classifications in 37L45

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Megan, Mihail (*with* Sasu, Adina Luminiţa; Sasu, Bogdan) Theorems of Perron type for uniform exponential dichotomy of linear skew-product semiflows. (English summary) **2004j:34106**
Sasu, Adina Luminiţa *see* **Megan, Mihail et al., 2004j:34106**
Sasu, Bogdan *see* **Megan, Mihail et al., 2004j:34106**

37L55 Infinite-dimensional random dynamical systems; stochastic equations [see also 35R60, 60H10, 60H15]

Baigent, Stephen *see* **Stark, Jaroslav et al., 2004c:37197**

Chueshov, Igor (*with* Duan, Jinqiao; Schmalfuss, Björn) Determining functionals for random partial differential equations. (English summary) **2004j:37153**
Duan, Jinqiao *see* **Chueshov, Igor et al., 2004j:37153**
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Da Prato, Giuseppe (*with* Debussche, Arnaud; Tubaro, Luciano) Irregular semi-convex gradient systems perturbed by noise and application to the stochastic Cahn-Hilliard equation. (English and French summaries) **2004m:60124**
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Duan, Jinqiao (*with* Lu, Kening; Schmalfuss, Björn) Invariant manifolds for stochastic partial differential equations. (English summary) **2004m:60136**
Fantozzi, Marco Large deviation for semilinear dissipative equation on Hilbert spaces. (English summary) **2004c:60070**
Filipović, Damir[1] (*with* Teichmann, Josef) Existence of invariant manifolds for stochastic equations in infinite dimension. (English summary) **2004b:60147**
Freidlin, M. I. (*with* Weber, Matthias[1]) Random perturbations of dynamical systems and diffusion processes with conservation laws. (English summary) **2004j:60119**
Leha, Gottlieb (*with* Ritter, Gunter) Lyapunov functions and stationary distributions of stochastic evolution equations. (English summary) **2004e:60099**
Lu, Kening *see* **Duan, Jinqiao et al., 2004m:60136**
Maslowski, Bohdan (*with* Nualart, David) Evolution equations driven by a fractional Brownian motion. (English summary) **2004e:60101**
Mattingly, Jonathan C. The dissipative scale of the stochastics Navier-Stokes equation: regularization and analyticity. (English summary) **2004e:76035**
Mierczyński, Janusz (*with* Shen, Wenxian) Exponential separation and principal Lyapunov exponent/spectrum for random/nonautonomous parabolic equations. (English summary) **2004h:35232**
Nualart, David *see* **Maslowski, Bohdan, 2004e:60101**
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Schmalfuss, Björn *see* **Duan, Jinqiao et al., 2004m:60136**
Shen, Wenxian *see* **Mierczyński, Janusz, 2004h:35232**
Teichmann, Josef *see* **Filipović, Damir[1], 2004b:60147**
Tubaro, Luciano *see* **Da Prato, Giuseppe et al., 2004m:60124**
Weber, Matthias[1] *see* **Freidlin, M. I., 2004j:60119**

37L60 Lattice dynamics [see also 37K60]

Afraimovich, Valentin S. (*with* Courbage, Maurice; Fernandez, Bastien; Morante, Antonio) Directional entropy in lattice dynamical systems. **2004e:37125**
— (*with* Morante, Antonio; Ugalde, E.) On the density of directional entropy in lattice dynamical systems. (English summary) **2004m:37153**
Ashwin, Peter (*with* Sturman, Rob) Decelerating defects and non-ergodic critical behaviour in a unidirectionally coupled map lattice. (English summary) **2004e:37126**
Bates, Peter W. (*with* Chen, Xinfu; Chmaj, Adam J. J.) Traveling waves of bistable dynamics on a lattice. (English summary) **2004k:37178**
Belykh, Igor V. *see* **Belykh, Vladimir N. et al., 2004c:37198**
Belykh, Vladimir N. (*with* Belykh, Igor V.; Hasler, Martin J.; Nevidin, Konstantin V.) Cluster synchronization in three-dimensional lattices of diffusively coupled oscillators. (English summary) **2004c:37198**
Bergman, Lawrence A. *see* **Manevich, L. I. et al., 2004d:37134**
Chen, Xinfu (*with* Guo, Jong-Shenq) Uniqueness and existence of traveling waves for discrete quasilinear monostable dynamics. (English summary) **2004b:37175**
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Chen, Yong Hong[2] *see* **Rangarajan, Govindan et al., 2004b:37177**
Chmaj, Adam J. J. *see* **Bates, Peter W. et al., 2004k:37178**
Corte-Real, João A. M. *see* **Gonçalves Lind, Pedro et al., 2004j:37154**
Courbage, Maurice *see* **Afraimovich, Valentin S. et al., 2004e:37125**
Coutinho, Ricardo (*with* Fernandez, Bastien) Spatially extended circle maps: monotone periodic dynamics of functions with linear growth. (English summary) **2004k:37179**
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Fernandez, Bastien *see* **Afraimovich, Valentin S. et al., 2004e:37125** *and* **Coutinho, Ricardo, 2004k:37179**
Gallas, Jason A. C. *see* **Gonçalves Lind, Pedro et al., 2004j:37154**
Gendelman, Oleg *see* **Manevich, L. I. et al., 2004d:37134**
Giberti, C. (*with* Vernia, C.) Numerical study of stability of non-chaotic patterns in coupled map lattices. (English summary) **2004c:37199**
Gonçalves Lind, Pedro (*with* Corte-Real, João A. M.; Gallas, Jason A. C.) Effects of local nonlinearity and basin size in the dynamics of lattices of bistable maps. (English summary) **2004j:37154**
Guo, Jong-Shenq *see* **Chen, Xinfu, 2004b:37175**
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Huang, Huaxiong *see* **Weng, Pei Xuan et al., 2004c:37202**
James, Guillaume *see* **Sire, Yannick, 2004m:37155**
Jiang, Jifa *see* **Liang, Xing, 2004b:37176**
Klič, A. *see* **Turzík, D. et al., 2004f:37108**
Konotop, Vladimir V. *see* **Perla Menzala, G., 2004c:37200**
Liang, Xing (*with* Jiang, Jifa) Discrete infinite-dimensional type-K monotone dynamical systems and time-periodic reaction-diffusion systems. (English summary) **2004b:37176**
Liu, Zeng Rong *see* **Zheng, Yong Ai, 2004f:37109**
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Morante, Antonio *see* **Afraimovich, Valentin S. et al., 2004e:37125** *and* **2004m:37153**
Musienko, A. I. *see* **Manevich, L. I. et al., 2004d:37134**
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Schmitt, Matthias Spectral theory for nonanalytic coupled map lattices. (English summary) **2004m:37154**
Shen, Wenxian Traveling waves in time periodic lattice differential equations. (English summary) **2004c:37201**
Sire, Yannick (*with* James, Guillaume) Travelling breathers in Klein-Gordon chains. (English and French summaries) **2004m:37155**
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Weng, Pei Xuan (*with* Huang, Huaxiong; Wu, Jian Hong) Asymptotic speed of propagation of wave fronts in a lattice delay differential equation with global interaction. (English summary) **2004c:37202**
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Baesens, Claude (*with* MacKay, Robert S.) A novel preserved partial order for cooperative networks of units with overdamped second order dynamics, and application to tilted Frenkel-Kontorova chains. (English summary) **2004k:34073**
Bardet, Jean-Baptiste Limit theorems for coupled analytic maps. (English summary) **2004c:60217**
Batista, Antônio M. (*with* de S. Pinto, Sandro E.; Viana, Ricardo L.; Lopes, Sergio R.) Mode locking in small-world networks of coupled circle maps. (English summary) **2004d:82018**
Biello, Joseph A. *see* **Kramer, Peter R. et al., 2004i:82034**
Bohr, Tomas *see* **Mikkelsen, René et al., 2004c:82084**
Chen, Fang Yue (*with* Liu, Zeng Rong) Chaotic stationary solutions of cellular neural networks. (English summary) **2004k:37191**
Chen, Guanrong *see* **Liu, Shu Tang[2], 2004d:37044** *and* **Wang, Xiao Fan, 2004h:93169**
Cipriani, P. (*with* Politi, Antonio) An open-system approach for the characterization of spatio-temporal chaos. (English summary) **2004j:37049**
Cowley, E. Roger *see* **Horton, George K., 2004d:82025**
Daumont, Isabelle (*with* Peyrard, Michel) One-dimensional "turbulence" in a discrete lattice. (English summary) **2004d:76056**
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Lin, Wen-Wei (*with* Peng, Chen-Chang) Chaotic synchronization in lattice of partial-state coupled Lorenz equations. (English summary) **2004i:37064**
Liu, Shu Tang[2] (*with* Chen, Guanrong) On spatial Lyapunov exponents and spatial chaos. (English summary) **2004d:37044**
Liu, Zeng Rong *see* **Chen, Fang Yue, 2004k:37191**
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Maĭstrenko, Yuriĭ L. *see* **Popovich, O. V. et al., 2004a:37062** *and* **Neumann, Eireen et al., 2004c:37056**
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Mikkelsen, René (*with* van Hecke, Martin; Bohr, Tomas) Influence of solitons on the transition to spatiotemporal chaos in coupled map lattices. (English summary) **2004c:82084**
Neumann, Eireen (*with* Sushko, Irina M.; Maĭstrenko, Yuriĭ L.; Feudel, Ulrike) Synchronization and desynchronization under the influence of quasiperiodic forcing. (English summary) **2004c:37056**
Peng, Chen-Chang *see* **Lin, Wen-Wei, 2004i:37064**
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Politi, Antonio *see* **Cipriani, P., 2004j:37049**

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Rugh, Hans Henrik Coupled maps and analytic function spaces. (English and French summaries) **2004b:37039**
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Shimoji, Sadao Decay of motion and energy diffusion in a nonlinear lattice. (English summary) **2004d:35137**
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Wang, Xiao Fan (*with* Chen, Guanrong) Synchronization in complex dynamical networks. (English summary) **2004h:93169**

37L65 Special approximation methods (nonlinear Galerkin, etc.)

Elmer, Christopher E. (*with* Van Vleck, Erik S.) A variant of Newton's method for the computation of traveling waves of bistable differential-difference equations. (English summary) **2004d:37135**
Van Vleck, Erik S. *see* **Elmer, Christopher E., 2004d:37135**

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Hale, Jack K. (*with* Raugel, Geneviève) Regularity, determining modes and Galerkin methods. (English summary) **2004k:37166**
He, Yin Nian (*with* Li, Kai Tai) Nonlinear Galerkin method for the exterior nonstationary Navier-Stokes equations. (Chinese. English and Chinese summaries) **2004a:65129**
Hou, Yan Ren (*with* Mattheij, R. M. M.) Inertial algorithms for the stationary Navier-Stokes equations. (English summary) **2004d:65142**
— (*with* Li, Kai Tai) IMD based nonlinear Galerkin method. (Chinese. English and Chinese summaries) **2004c:65110**
Li, Kai Tai *see* **He, Yin Nian, 2004a:65129** *and* **Hou, Yan Ren, 2004c:65110**
Mattheij, R. M. M. *see* **Hou, Yan Ren, 2004d:65142**
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37L99 None of the above, but in this section

Aubry, Nadine (*with* Lima, Ricardo; Rahibe, Mohamed) Breaking of space-time symmetries in modulated traveling waves. (English summary) **2004d:37136**
Bernoussi, A. (*with* El Jai, A.; Pritchard, A. J.) Spreadability and evolving interfaces. (English summary) **2004f:37110**
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37Mxx Approximation methods and numerical treatment of dynamical systems [see also 65Pxx]

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37M15 Symplectic integrators

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37M20 Computational methods for bifurcation problems

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Domokos, G. *see* **Kapsza, E. et al., 2004k:37182**
Huang, Ming You *see* **Zou, Yong Kui, 2004a:37118**
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37M99 None of the above, but in this section

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Morozov, A. D. (*with* Dragunov, T. N.) Visualization and analysis of invariant sets of dynamical systems. (English summary) **2004c:37207**
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Smith, Leonard A. *see* **Judd, Kevin et al., 2004m:37164**
Vegter, Gert *see* **Broer, Henk W. et al., 2004c:37206** *and* **2004i:37163**
Weisheimer, Antje *see* **Judd, Kevin et al., 2004m:37164**
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Kulczycki, Marcin *see* **Jabłoński, Dariusz, 2004h:37011**
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37Nxx Applications

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(Akhmediev, Nail) *see* **Nonlinear dynamics, 2004e:37004**
(Ball, Rowena) *see* **Nonlinear dynamics, 2004e:37004**
(Boccaletti, Stefano) *see* **Experimental chaos, 2004j:37003**
(Carroll, Thomas L.) *see* **Experimental chaos, 2004j:37003**
(Feigenbaum, Mitchell J.) *see* **Peitgen, Heinz-Otto et al., 2004m:37061**
(Gloumov, V. I.) *see* **Neĭmark, Yu. I., 2004e:00006**
(Gluckman, Bruce J.) *see* **Experimental chaos, 2004j:37003**
(He, Xian Tu) *see* **Dynamics Days Asia-Pacific (DDAP): The Second International Conference on Nonlinear Science**
(In, Visarath) *see* **Experimental chaos, 2004j:37003**
Jürgens, Hartmut *see* **Peitgen, Heinz-Otto et al., 2004m:37061**
(Koçarev, Ljupčo) *see* **Experimental chaos, 2004j:37003**
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(Kurths, Jürgen) *see* **Experimental chaos, 2004j:37003**
(Lakshmanan, M.) *see* **Nonlinear systems, 2004d:37003**
Mainzer, Klaus ★ Thinking in complexity. **2004m:37001**
Neĭmark, Yu. I. ★ Mathematical models in natural science and engineering. **2004e:00006**
Ott, Edward ★ Chaos in dynamical systems. (English summary) **2004a:37001**
Peitgen, Heinz-Otto (*with* Jürgens, Hartmut; Saupe, Dietmar) ★ Chaos and fractals. **2004m:37061**
(Sahadevan, R.) *see* **Nonlinear systems, 2004d:37003**
Saupe, Dietmar *see* **Peitgen, Heinz-Otto et al., 2004m:37061**
Scott, Alwyn ★ Nonlinear science. **2004k:37002**
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(Sun, Yi-Sui) *see* **Dynamics Days Asia-Pacific (DDAP): The Second International Conference on Nonlinear Science**

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Chennai ★ Nonlinear systems. **2004d:37003**
Conference:
Nonlinear Science ★ Dynamics Days Asia-Pacific (DDAP): The Second International Conference on Nonlinear Science.
Dynamics Days Asia-Pacific (DDAP): The Second International Conference on Nonlinear Science ★ Dynamics Days Asia-Pacific (DDAP): The Second International Conference on Nonlinear Science.
Experimental chaos ★ Experimental chaos. **2004j:37003**
Hangzhou ★ Dynamics Days Asia-Pacific (DDAP): The Second International Conference on Nonlinear Science.
Nonlinear dynamics ★ Nonlinear dynamics. **2004e:37004**
Nonlinear systems ★ Nonlinear systems. **2004d:37003**
San Diego, CA ★ Experimental chaos. **2004j:37003**
School:
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39A11 Stability and asymptotics of difference equations; oscillatory and periodic solutions, etc.

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39A20 Multiplicative and other generalized difference equations, e.g. of Lyness type

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39A70 Difference operators [see also 47B39]

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— (*with* Tabor, Józef) On the sets of exact and approximate solutions. (English summary) **2004i:39044**
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Wąsowicz, Szymon *see* **Balaj, Mircea, 2004a:54021**
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39B99 None of the above, but in this section

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Ben Adda, Fayçal (*with* Cresson, Jacky) Quantum derivatives and the Schrödinger equation. (English summary)
Čermák, Jan A change of variables in the asymptotic theory of differential equations with unbounded delays. (English summary) **2004b:34194**
Cresson, Jacky *see* **Ben Adda, Fayçal**
Dolgiĭ, Yu. F. (*with* Kukushkina, E. V.) Representations of solutions of stationary functional-difference equations. (Russian) **2004i:45002**
Kukushkina, E. V. *see* **Dolgiĭ, Yu. F., 2004i:45002**
Trillas, Enric *see* **Alsina, Claudi, 2004i:03042**

40–XX Sequences, series, summability

40–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 40–03

Bătineţu-Giurgiu, D. M. *see* **Bătineţu-Giurgiu, Maria et al., 2004i:40001**

Bătineţu-Giurgiu, Maria (*with* Bătineţu-Giurgiu, D. M.; Semenescu, Augustin) Geometrization of Lalescu-type sequences. Collinearity and Lalescu-type sequence. (Romanian. English summary) **2004i:40001**

(Dirksen, E. H.) *see* **Schubring, Gert, 2004b:01026**

Ferraro, Giovanni (*with* Panza, Marco) Developing into series and returning from series: a note on the foundations of eighteenth-century analysis. (English, French and Italian summaries) **2004d:01017**

Mazet, Edmond La théorie des séries de Nicole Oresme dans sa perspective aristotélicienne. *Questions 1 et 2 sur la géométrie d'Euclide*. (English and French summaries) [The theory of series of Nicole Oresme in its Aristotelian perspective. *Questions 1 and 2 on Euclid's geometry*] **2004m:01007**

(Oresme, Nicole) *see* **Mazet, Edmond, 2004m:01007**

Panza, Marco *see* **Ferraro, Giovanni, 2004d:01017**

Schubring, Gert E. H. Dirksens Beiträge zu den Grundlagen der Analysis. (English summary) [E. H. Dirksen's contributions to the foundations of analysis] **2004b:01026**

Semenescu, Augustin *see* **Bătineţu-Giurgiu, Maria et al., 2004i:40001**

40Axx Convergence and divergence of infinite limiting processes

40A05 Convergence and divergence of series and sequences

Altin, Yavuz *see* **Tripathy, Binod Chandra et al., 2004h:40003**

Atanassov, Krassimir T. On a conjecture concerning the harmonic series.

Başarir, Metin *see* **Polat, Harun, 2004m:40006**

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— *see also* **Bătineţu-Giurgiu, Maria et al., 2004i:40001**

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Čižmešija, Aleksandra (*with* Pečarić, Josip E.; Persson, Lars-Erik) On strengthened weighted Carleman's inequality. (English summary) **2004k:40001**

Das, Pratulananda *see* **Lahiri, B. K., 2004m:40003**

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Demirci, Kamil On A-statistical cluster points. (English summary) **2004b:40001**

— (*with* Khan, Mohammad Kazim; Orhan, C.) Strong and A-statistical comparisons for sequences. (English summary) **2004c:40001**

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Et, Mikail Strongly almost summable difference sequences of order m defined by a modulus. (English summary) **2004m:40001**

— *see also* **Tripathy, Binod Chandra et al., 2004h:40003**

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Güngör, M. *see* **Gökhan, A., 2004c:40002**

Gürdal, Mehmet Statistically pre-Cauchy sequences and bounded moduli. (English summary) **2004k:40003**

Hong, Yong[2] A new theorem on convergence of positive series and its application. (Chinese. English and Chinese summaries)

Khan, Mohammad Kazim *see* **Demirci, Kamil et al., 2004c:40001** *and* **Fridy, J. A., 2004h:40001**

Khosravi, Amir (*with* Khosravi, Behrooz) Invariant C^*-valued means and summability in C^*-algebras. (English summary) **2004i:40002**

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Lahiri, B. K. (*with* Das, Pratulananda) Further results on I-limit superior and limit inferior. (English summary) **2004m:40003**

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— (*with* Edely, Osama H. H.) Statistical convergence of double sequences. (English summary) **2004m:40004**

Okada, Masami *see* **Ueno, Toshihide et al., 2004b:40002**

Orhan, C. *see* **Demirci, Kamil et al., 2004c:40001** *and* **Fridy, J. A. et al., 2004k:40002**

Pataki, Gergely On the convergence of the series $\sum a_n^{1-x_n/\log(1+n)}$. (English summary)

Pečarić, Josip E. *see* **Čižmešija, Aleksandra et al., 2004k:40001**

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Popa, Ştefan A. *see* **Bătineţu-Giurgiu, D. M., (2004g:00019)**

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Savaş, Rahmet *see* **Savaş, Ekrem, 2004d:40001**

Semenescu, Augustin *see* **Bătineţu-Giurgiu, Maria et al., 2004i:40001**

Sen, Mausumi *see* **Tripathy, Binod Chandra, 2004i:40003**

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Şoltuz, Ştefan M. Sequences supplied by inequalities and applications. (English summary) (*see* **2004k:26001**)

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— (*with* Sen, Mausumi) Vector valued paranormed bounded and null sequence spaces associated with multiplier sequences. (English summary) **2004i:40003**

— Statistically convergent double sequences. (English summary) **2004g:40002**

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Zanelli, Vanna Knopp's and Fridy's speed of convergence for Euler transforms. (English summary) **2004d:40003**

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Başarir, Metin (*with* Mursaleen, M.) Some difference sequences spaces of fuzzy numbers. (English summary)

Bektaş, Çiğdem A. On some new generalized sequence spaces. (English summary) **2004b:46004**

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Blanes, Sergio (*with* Casas, Fernando) On the convergence and optimization of the Baker-Campbell-Hausdorff formula. (English summary) **2004k:17008**

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Bruĭ, I. N. Methods for the summation of trigonometric series, and function spaces. (Russian. Russian summary) **2004c:42009**

Buczolich, Zoltán (*with* Mauldin, R. Daniel) On series of translates of positive functions. II. (English summary) **2004c:28005**

Çakan, Celal (*with* Çoşkun, Hüsamettin) On the A-statistical core of sequences of complex numbers. (English summary) **2004m:40010**

Casas, Fernando *see* **Blanes, Sergio, 2004k:17008**

Chubarikov, V. N. A remark on the definition of the mean. (Russian. Russian summary) **2004g:26026**

— *see also* **Khodzhaev, N. M., 2004h:42038**

Çoşkun, Hüsamettin *see* **Çakan, Celal, 2004m:40010**

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Demirci, Kamil (*with* Yardimci, S.) σ-core and $\mathcal{I}$-core of bounded sequences. (English summary) **2004k:40006**

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Karakaya, Vatan (*with* Simsek, Necip) On some matrix transformations. (English summary) **2004i:46005**

Khodzhaev, N. M. (*with* Chubarikov, V. N.) On estimates for complete rational trigonometric sums and sums of Dirichlet characters. (Russian. Russian summary) **2004h:42038**

Luo, Qiu Ming (*with* Qi, Feng; Barnett, Neil S.; Dragomir, Sever Silvestru) Inequalities involving the sequence $\sqrt[3]{a+\sqrt[3]{a+\cdots+\sqrt[3]{a}}}$. (English summary) **2004e:26026**

Mahanta, Sabita *see* **Tripathy, Binod Chandra, 2004j:46009**

Malkowsky, Eberhard (*with* Mursaleen, M.; Qamaruddin) Generalized sets of difference sequences, their duals and matrix transformations. **2004b:46006**

Mauldin, R. Daniel *see* **Buczolich, Zoltán, 2004c:28005**

McGregor, Colin M. *see* **Duncan, John, 2004k:26027**

Medina, Francisco *see* **Boix, Rafael R. et al.**

Mursaleen, M. *see* **Malkowsky, Eberhard et al., 2004b:46006** *and* **Başarir, Metin**

Nishimoto, Katsuyuki (*with* Salinas de Romero, Susana; Prieto, Ana I.) Some doubly and triply infinite sums derived from the N-fractional calculus of a logarithmic function.

(English summary)
— (*with* Salinas de Romero, Susana) Some multiple infinite sums derived from the N-fractional calculus of some power functions. (English summary)
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Prieto, Ana I. *see* **Nishimoto, Katsuyuki et al.**
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Qi, Feng *see* **Luo, Qiu Ming et al., 2004e:26026**
Salinas de Romero, Susana *see* **Nishimoto, Katsuyuki et al.**
Savaş, Ekrem (*with* Fisher, Brian; Pehlivan, Serpil) Matrix transformations between sequence spaces over non-Archimedean fields. (English summary) **2004b:40007**
— (*with* Savaş, Rahmet) Some λ-sequence spaces defined by Orlicz functions. (English summary) **2004i:46027**
Savaş, Rahmet *see* **Savaş, Ekrem, 2004i:46027**
Shur, M. G. New ratio limit theorems for Markov chains. (English summary) **2004e:60118**
Simić, Slavko On weighted means preserving regular variation. (English summary)
Simsek, Necip *see* **Karakaya, Vatan, 2004i:46005**
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Skhirtladze, N. M. *see* **Skhirtladze, I.**
Stević, Stevo A global convergence result. (English summary) **2004f:39026**
— On sequences which satisfy a nonlinear inequality. (English summary) **2004h:39029**
Stuart, Christopher *see* **Swartz, Charles, 2004i:46007**
Swartz, Charles (*with* Stuart, Christopher) Uniform convergence in the dual of a vector-valued sequence space. (English summary) **2004i:46007**
Tripathy, Binod Chandra On a class of difference sequences related to the p-normed space l^p. (English summary) **2004h:46005**
— (*with* Mahanta, Sabita) On a class of sequences related to the l^p space defined by Orlicz functions. (English summary) **2004j:46009**
Yardimci, S. *see* **Demirci, Kamil, 2004k:40006**

40A15 Convergence and divergence of continued fractions [see also 30B70]

Aldana, Bernarda H. *see* **Charris, Jairo A. et al., 2004m:40008**
Antonova, T. M. A multidimensional generalization of a theorem on the parabolic domain of convergence of continued fractions. (Ukrainian. English, Russian and Ukrainian summaries) **2004b:40003**
Bodnar, D. Ī. (*with* Kuchmins′ka, Khrystyna) An analogue of the Van Vleck theorem for two-dimensional continued fractions. (Ukrainian. English, Russian and Ukrainian summaries) **2004b:40004**
— Multidimensional generalizations of continued fractions. (Ukrainian. English, Russian and Ukrainian summaries) **2004m:40007**
Charris, Jairo A. (*with* Aldana, Bernarda H.; Preciado, Germán) Recurrence relations, continued fractions and determining the spectral properties of orthogonal systems of polynomials. (Spanish. English and Spanish summaries) **2004m:40008**
Dmitrishin, R. Ī. Expansion of the multidimensional C-fraction with real coefficients in a multiple power series. (Ukrainian. English, Russian and Ukrainian summaries) **2004c:40004**
— On the convergence of branched continued fractions with partial quotients of the form $\frac{g_{j(k)}(1-g_{j(k-1)})z_k}{1}$. (Ukrainian. English, Russian and Ukrainian summaries) **2004c:40005**
Goĕnko, N. P. Application of a multidimensional analogue of Worpitzky's theorem to the investigation of the convergence of the expansion of Lauricella hypergeometric functions into branched continued fractions. (Ukrainian. English, Russian and Ukrainian summaries)
Kuchmins′ka, Khrystyna (*with* Sus′, Olga; Vozna, S. M.) Approximation properties of two-dimensional continued fractions. (Ukrainian. English and Ukrainian summaries) **2004m:40009**
— *see also* **Bodnar, D. Ī., 2004b:40004**
Pigulla, Wilfried Konvergenzbeschleunigung mit Hilfe von Kettenbrüchen. [Convergence acceleration using continued fractions]
Preciado, Germán *see* **Charris, Jairo A. et al., 2004m:40008**
Sus′, Olga An analogue of the Stern-Stoltz theorem for two-dimensional continued fractions. (Ukrainian. English, Russian and Ukrainian summaries) **2004i:40004**
— *see also* **Kuchmins′ka, Khrystyna et al., 2004m:40009**
Vozna, S. M. *see* **Kuchmins′ka, Khrystyna et al., 2004m:40009**
Xiao, Ping[2] *see* **Zhao, Huan-xi et al., 2004b:40005**
Zhao, Huan-xi (*with* Zhu, Gong Qin; Xiao, Ping[2]) A backward three-term recurrence relation for vector valued continued fractions and its applications. (English summary) **2004b:40005**
— (*with* Zhu, Gong Qin) A Worpitzky theorem for vector valued continued fractions. (English summary) **2004c:40006**
Zhu, Gong Qin *see* **Zhao, Huan-xi et al., 2004b:40005** *and* **2004c:40006**

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Beardon, Alan F. Continued fractions. **2004a:11005**
Bultheel, Adhemar (*with* Gonzalez-Vera, Pablo; Hendriksen, Erik; Njåstad, Olav) Positivity of continued fractions associated with rational Stieltjes moment problems. (English summary) **2004m:30006**
Buslaev, V. I. On the convergence of continued T-fractions. (Russian. Russian summary) **2004d:30007**
Chen, Kwang-Wu An interesting lemma for regular C-fractions. (English summary)
Gonzalez-Vera, Pablo *see* **Bultheel, Adhemar et al., 2004m:30006**
Gu, Chuan Qing *see* **Wang, Jinbo, 2004m:41014**
Gustafson, Karl Continued fractions, wavelet time operators, and inverse problems. (English summary) **2004m:47067**
Hendriksen, Erik *see* **Bultheel, Adhemar et al., 2004m:30006**
Jiang, Ping *see* **Tan, Jieqing, 2004m:41013**
Lorentzen, Lisa A priori truncation error bounds for continued fractions. (English summary) **2004j:30008**
Manzīī, O. S. On the convergence of the expansion of the ratio of Appell hypergeometric functions F_3 into a branched continued fraction in an unbounded domain. (Ukrainian. English, Russian and Ukrainian summaries) **2004d:33013**
— An estimate for the rate of convergence of the Nörlund continued fraction. (Ukrainian. English, Russian and Ukrainian summaries)
Njåstad, Olav *see* **Bultheel, Adhemar et al., 2004m:30006**
Oskolkov, K. I. Continued fractions and the convergence of a double trigonometric series. (English summary) **2004g:30007**
Paszkowski, Stefan Convergence acceleration of some continued fractions. (English summary) **2004j:30009**
Tan, Jieqing (*with* Jiang, Ping) A Neville-like method via continued fractions. (English summary) **2004m:41013**
Trzaska, Z. W. On a continued fraction approach to studies of skew-symmetric chain systems. (English summary) **2004i:94075**
Wang, Jinbo (*with* Gu, Chuan Qing) Vector valued Thiele-Werner-type osculatory rational interpolants. (English summary) **2004m:41014**
Zhao, Huan-xi (*with* Zhu, Gong Qin) Matrix-valued continued fractions. (English summary) **2004k:41024**
Zhu, Gong Qin *see* **Zhao, Huan-xi, 2004k:41024**

40A20 Convergence and divergence of infinite products

Items with secondary classifications in 40A20

Piros, Mihály A generalization of the Wallis formula. (English summary) **2004j:11153**
Reich, Simeon (*with* Zaslavski, Alexander J.) The set of divergent infinite products in a Banach space is σ-porous. (English summary) **2004b:47088**
Zaslavski, Alexander J. *see* **Reich, Simeon, 2004b:47088**

40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15.}

Glaister, P. Taylor's theorem and integral expansions—a class of infinite series. (English summary) **2004a:40001**
Sidi, Avram A convergence and stability study of the iterated Lubkin transformation and the θ-algorithm. (English summary) **2004g:40003**

Items with secondary classifications in 40A25

Chen, Falai *see* **Li, Shang Zhi et al., 2004b:00002**
Choi, Junesang Notes on formal manipulations of double series. (English summary) **2004m:11132**
Drazin, Philip Gerald *see* **Khan, M. A. H. et al., 2004g:76059**
(E, Weinan) *see* **Li, Shang Zhi et al., 2004b:00002**
Khan, M. A. H. (*with* Drazin, Philip Gerald; Tourigny, Y.) The summation of series in several variables and its applications in fluid dynamics. (English summary) **2004g:76059**
Li, Shang Zhi (*with* Chen, Falai; Wu, Yao Hua[1]; Zhang, Yunhua) ★ Mathematics experiments. **2004b:00002**
(Stirling, James) *see* **Tweddle, Ian, 2004i:01026**
Tammeraid, I. Convergence acceleration and linear methods. (English summary) **2004d:65009**
Thukral, R. A review of Padé type approximants for accelerating the convergence of sequences. (English summary) **2004k:41026**
Tourigny, Y. *see* **Khan, M. A. H. et al., 2004g:76059**
Tweddle, Ian ★ James Stirling's *Methodus differentialis*. **2004i:01026**
Wu, Yao Hua[1] *see* **Li, Shang Zhi et al., 2004b:00002**
Zanelli, Vanna Knopp's and Fridy's speed of convergence for Euler transforms. (English summary) **2004d:40003**
Zhang, Yunhua *see* **Li, Shang Zhi et al., 2004b:00002**

40A30 Convergence and divergence of series and sequences of functions

Calderón, Calixto P. Summability of orthonormal polynomial series. (English summary) **2004c:40007**
Novikov, S. Ya. $l_{p,q}$-bounded sequences in function spaces. (English summary) **2004k:40004**
Sturzu, Ioan On the function $\sum_{k=-\infty}^{\infty} \exp\left(-\frac{k^2}{s^2}\right)$. (English and Romanian summaries)

Items with secondary classifications in 40A30

Carro, María J. (*with* Martín, Joaquim) A useful estimate for the decreasing rearrangement of the sum of functions. (English summary)
Chen, Kung-Yu (*with* Chyan, Chuan-Jen; Srivastava, Hari M.) Certain classes of polynomial expansions and multiplication formulas. (English summary) **2004a:33013**
Chyan, Chuan-Jen *see* **Chen, Kung-Yu et al., 2004a:33013**
Cifuentes, Patricio *see* **D′yachenko, M. I. et al., 2004h:42009**
Combari, Christophe (*with* Marcellin, Sylvie; Thibault, Lionel) On the graph convergence of ε-Fenchel subdifferentials of convex functions. (English summary) **2004e:49018**
D′yachenko, M. I. (*with* Kazaryan, K. S.; Cifuentes, Patricio) The essential divergence in measure of function sequences and series. (Russian. Russian summary) **2004h:42009**
El Hajioui, K. *see* **Mentagui, Driss, 2004g:49017**
Kazaryan, K. S. *see* **D′yachenko, M. I. et al., 2004h:42009**
Marcellin, Sylvie *see* **Combari, Christophe et al., 2004e:49018**
Martín, Joaquim *see* **Carro, María J.**
Mentagui, Driss (*with* El Hajioui, K.) Convergences des fonctions convexes et approximations inf-convolutives generalisées. (English and French summaries) [Convergence of convex functions and generalized inf-convolutive approximations] **2004g:49017**
Srivastava, Hari M. (*with* Tsumura, Hirofumi) Inductive construction of rapidly convergent series representations for $\zeta(2n+1)$. (English summary) **2004i:11099**

— *see also* **Chen, Kung-Yu et al., 2004a:33013**
Szili, L. Uniform convergent discrete processes on the roots of four kinds of Chebyshev polynomials. **2004f:41005**
— On the summability of weighted Lagrange interpolation on the roots of Jacobi polynomials. (English summary) **2004a:41003**
Thibault, Lionel *see* **Combari, Christophe et al., 2004e:49018**
Thukral, R. A review of Padé type approximants for accelerating the convergence of sequences. (English summary) **2004k:41026**
Tomovski, Živorad (*with* Trenčevski, Kostadin G.) On an open problem of Bai-Ni Guo and Feng Qi. (English summary) **2004e:26029**
Trenčevski, Kostadin G. *see* **Tomovski, Živorad, 2004e:26029**
Tsumura, Hirofumi *see* **Srivastava, Hari M., 2004i:11099**

40A99 None of the above, but in this section

Items with secondary classifications in 40A99

Connor, Jeff (*with* Grosse-Erdmann, Karl G.) Sequential definitions of continuity for real functions. (English summary) **2004e:26004**
Grosse-Erdmann, Karl G. *see* **Connor, Jeff, 2004e:26004**

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

Items with secondary classifications in 40B05

Debnath, Lokenath *see* **Gao, Ming Zhe, 2004m:40002**
Gao, Ming Zhe (*with* Debnath, Lokenath) A new refinement on the Hardy-Hilbert theorem for double series and its applications. (English summary) **2004m:40002**
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40Cxx General summability methods

40C05 Matrix methods

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Bennett, Grahame Summability matrices and random walk. (English summary) **2004k:60194**
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— Some sequence spaces defined by a modulus. (English summary) **2004b:40008**
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— (*with* Khan, Mohammad Kazim; Orhan, C.) Strong and A-statistical comparisons for sequences. (English summary) **2004c:40001**
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— On the sets of sequences that are strongly α-bounded and α-convergent to naught with index p. (English summary) **2004k:46029**
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— (*with* Savaş, Ekrem) Matrix transformations between sequence spaces of generalized weighted means. (English summary) **2004g:46007**
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— *see also* **Jarrah, A. M., 2004f:40005**
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40C10 Integral methods

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40C15 Function-theoretic methods (including power series methods and semicontinuous methods)

Astapov, N. S. *see* **Astapova, E. S.**
Astapova, E. S. (*with* Astapov, N. S.) Some examples of quadratic summation of power series. (Russian)
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40Dxx Direct theorems on summability

40D05 General theorems

Sulaiman, W. T. Characterization on some related convergent series. (English summary) **2004m:40011**

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40D09 Structure of summability fields

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40D15 Convergence factors and summability factors

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Özarslan, H. S. On $|\overline{N}, p_n; \delta|_k$ summability factors. (English summary) **2004a:40002**

40D25 Inclusion and equivalence theorems

Bilgin, Tunay Some sequence spaces defined by a modulus. (English summary) **2004b:40008**

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Altin, Yavuz (*with* Et, Mikail; Altinok, Hıfsı) The sequence space $|\overline{N}_p|(f, r, q, s)$ on seminormed spaces. (English summary) **2004g:40005**
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40D99 None of the above, but in this section

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40Exx Inversion theorems

40E05 Tauberian theorems, general

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Móricz, Ferenc Tauberian theorems for double sequences that are statistically summable $(C, 1, 1)$. (English summary) **2004j:40003**
— (*with* Rhoades, B. E.) Necessary and sufficient Tauberian conditions for certain weighted mean methods of summability. II. (English summary) **2004m:40012**
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40F05 Absolute and strong summability

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Chandra, Satish[1] Strong (N, p, q) summability.
Filevich, Petro On relations between the abscissa of convergence and the abscissa of absolute convergence of random Dirichlet series. (English and Russian summaries) **2004m:40013**
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— A note on absolute summability factors. (English summary) **2004c:40008**
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Sahoo, A. K. On the absolute N_{q_n}-summability of rth derived conjugate series. (English summary) **2004g:40007**
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40Gxx Special methods of summability

40G05 Cesàro, Euler, Nörlund and Hausdorff methods

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Altin, Yavuz (*with* Et, Mikail; Altinok, Hıfsı) The sequence space $|\overline{N}_p|(f, r, q, s)$ on seminormed spaces. (English summary) **2004g:40005**
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Bilgin, Tunay Δ-statistical and strong Δ-Cesaro convergence of sequences of fuzzy numbers. (English summary) **2004g:40006**
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— A note on generalized Nörlund summability. (English summary)
— On generalized Nörlund summability factors of infinite series. (English summary) **2004m:40014**
Coşkun, C. A special Nörlund mean and its eigenvalues. (English summary) **2004m:40015**
Et, Mikail *see* **Altin, Yavuz et al., 2004g:40005**
Gorinov, Alexey G. (*with* Shadchin, Sergey V.) Cesàro asymptotics for the orders of $SL_k(\mathbb{Z}_n)$ and $GL_k(\mathbb{Z}_n)$ as $n \to \infty$. (English and French summaries)
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Mishra, S. K. *see* **Tripathi, Vagish Narayan, 2004a:40005**
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Dai, Feng (*with* Wang, Kun Yang) Almost everywhere convergence conditions given by modulus of continuity in Fourier-Laplace analysis. (Chinese. English and Chinese summaries) **2004b:42003**
Lal, Shyam (*with* Yadav, Ramashray Singh) Almost (N, p, q) summability of conjugate series of a Fourier series. (English summary) **2004g:42007**
— (*with* Singh, Gopal Krishna) Degree of approximation of conjugate of Lip α class function by K^λ-summability means of conjugate series of a Fourier series. (English summary) **2004i:42003**
Lasuriya, R. A. (φ, α)-strong summability of Fourier-Laplace series of functions continuous on the sphere. (Russian. English and Ukrainian summaries) **2004a:42037**
Li, Zhongkai (*with* Xu, Yuan[1]) Summability of orthogonal expansions of several variables. (English summary) **2004e:42041**
Meaney, Christopher Divergent Cesàro and Riesz means of Jacobi and Laguerre expansions. (English summary) **2004e:33008**
Pati, T. Extended Tauberian theorems. (English summary) **2004e:40001**
Pempera, Radosława On the pointwise summability of Fourier series by the Cesàro and Abel-Poisson means. (English summary) **2004d:42004**
Rhoades, B. E. On absolute normal double matrix summability methods. (English summary) **2004f:40001**
Sanhan, Winate (*with* Suantai, Suthep) On k-nearly uniform convex property in generalized Cesàro sequence spaces. (English summary) **2004h:46017**
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Singh, Kalp Nath (*with* Shukla, A. K.) On a sequence of Fourier coefficients. (English summary) **2004b:42012**
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Sulaiman, W. T. Inclusion theorems for absolute matrix summability methods of an infinite series. IV. (English summary)
— Characterization on some related convergent series. (English summary) **2004m:40011**
Wang, Kun Yang *see* **Dai, Feng, 2004b:42003**
Xu, Yuan[1] *see* **Li, Zhongkai, 2004e:42041**
Yadav, Ramashray Singh *see* **Lal, Shyam, 2004g:42007**

40G10 Abel, Borel and power series methods

Items with secondary classifications in 40G10

Estrada, Ricardo Abel summability and angular convergence. (English summary) **2004j:30001**
Pati, T. Extended Tauberian theorems. (English summary) **2004e:40001**
Pempera, Radosława On the pointwise summability of Fourier series by the Cesàro and Abel-Poisson means. (English summary) **2004d:42004**
Stadtmüller, Ulrich (*with* Tali, Anne) Comparison of certain summability methods by speeds of convergence. (English and Russian summaries) **2004i:40005**
Tali, Anne *see* **Stadtmüller, Ulrich, 2004i:40005**

40G99 None of the above, but in this section

Ruscheweyh, Stephan On a moment problem and a class of perfect summability methods. (English summary) **2004e:40003**
Sahoo, A. K. On the absolute N_{q_n}-summability of rth derived conjugate series. (English summary) **2004g:40007**
Tali, Anne On convex families of summability methods. (English summary) **2004j:40006**

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Sofo, Anthony Summation of series via Laplace transforms. (English summary) **2004c:40003**

40H05 Functional analytic methods in summability

Azar, Laith Emil *see* **Bataineh, Ahmad H. A., 2004e:40004**
Başarir, Metin Some new sequence space generated by Orlicz functions. (English summary) **2004i:40006**
Bataineh, Ahmad H. A. On generalized spaces of $\mathscr{B}$-bounded sequences. (English summary) **2004b:40012**
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— *see also* **Jarrah, A. M., 2004f:40005**
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41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)

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41A80 Remainders in approximation formulas

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41A99 Miscellaneous topics

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42–XX Fourier analysis

42–01 Instructional exposition (textbooks, tutorial papers, etc.)

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Shakarchi, Rami *see* **Stein, Elias M., 2004a:42001**
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42–02 Research exposition (monographs, survey articles)

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(Singh, Dinesh[1]) *see* **Wavelets and allied topics, 2004d:42001**
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(Runst, Thomas) *see* **Function spaces, differential operators and nonlinear analysis, 2004e:46004**
(Schmeisser, Hans-Jürgen) *see* **Function spaces, differential operators and nonlinear analysis, 2004e:46004**
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42Axx Fourier analysis in one variable

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Pinsky, Mark A.[1] Fejér asymptotics and the Hilbert transform. (English summary) **2004c:41027**
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42A15 Trigonometric interpolation

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42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30.}

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Tsagareishvili, V. Estimates of Fourier coefficients. (English summary) **2004i:42005**
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42A20 Convergence and absolute convergence of Fourier and trigonometric series

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42A24 Summability and absolute summability of Fourier and trigonometric series

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42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)

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42A50 Conjugate functions, conjugate series, singular integrals

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42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization

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42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30.}

42B05 Fourier series and coefficients

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42B08 Summability

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42B35 Function spaces arising in harmonic analysis

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42C99 None of the above, but in this section

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43–06 Proceedings, conferences, collections, etc.

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43A05 Measures on groups and semigroups, etc.

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43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups

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45C05 Eigenvalue problems [see also 34Lxx, 35Pxx, 45P05, 47A75]

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45D05 Volterra integral equations [see also 34A12]

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45Fxx Systems of linear integral equations

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45Mxx Qualitative behavior

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45Q05 Inverse problems

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Argyros, Spiros A. (*with* Godefroy, Gilles; Rosenthal, Haskell P.) Descriptive set theory and Banach spaces. (English summary) **2004g:46002**
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Odell, Edward On subspaces, asymptotic structure, and distortion of Banach spaces; connections with logic. **2004b:46016**
Pełczyński, Aleksander (*with* Wojciechowski, Michał) Sobolev spaces. **2004k:46048**
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Course on Banach Spaces and Operators ★ IV Curso sobre Espacios de Banach y Operadores. (Spanish) [IV Course on Banach spaces and operators]
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46Axx Topological linear spaces and related structures {For function spaces, see 46Exx.}

46A03 General theory of locally convex spaces

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Boyd, Christopher Preduals of spaces of vector-valued holomorphic functions. (English summary) **2004c:46072**
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46A08 Barrelled spaces, bornological spaces

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López Pellicer, Manuel *see* **Ferrando, J. C. et al.**, **2004m:46079**
Morales, I. *see* **Ferrer Villanueva, José R. et al.**, **2004d:46035**
Pombo, Dinamérico P., Jr. *see* **Del-Vecchio, Renata R. et al.**, **2004j:46069**
Sánchez Ruiz, L. M. *see* **Ferrer Villanueva, José R. et al.**, **2004d:46035**
Simoes, Marilda A. *see* **Castillo, Jesús M. F.**, **2004i:46002**
Vinagre, Cybele T. M. *see* **Del-Vecchio, Renata R. et al.**, **2004j:46069**

46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)

Sofi, M. A. Embedding theorems in functional analysis. **2004a:46001**

Items with secondary classifications in 46A11

Castillo, Jesús M. F. (*with* Simoes, Marilda A.) On p-summable sequences in locally convex spaces. **2004i:46002**
Kadelburg, Zoran (*with* Radenović, Stojan) On the three-space-problem for dF spaces and their duals. (English summary) **2004f:46002**
Khurana, Surjit Singh Weak compactness of certain sets of measures. (English summary) **2004h:46023**
Nguyen Dinh Lan *see* **Nguyen Van Khue**, **2004m:46105**
Nguyen Van Khue (*with* Nguyen Dinh Lan) Locally bounded holomorphic functions and the mixed Hartogs theorem. (English summary) **2004m:46105**
Radenović, Stojan *see* **Kadelburg, Zoran**, **2004f:46002**
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Wengenroth, Jochen A conjecture of Palamodov about the functors Ext^k in the category of locally convex spaces. (English summary) **2004c:46138**

46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [see also 46M40]

García-Martínez, Armando On sequentially retractive inductive limits. (English summary) **2004c:46004**
— Regular inductive limits of locally complete spaces. (English summary) **2004m:46004**
Kucera, Jan Reflexivity of inductive limits. (English summary) **2004k:46004**
Qiu, Jing Hui Some properties of regular and α-regular (LM)-spaces. (English summary) **2004a:46002**

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Albanese, Angela Anna Projective descriptions of the (LF)-spaces of type $LB(\lambda_p(A), F)$. (English summary) **2004f:46005**
— Bounded linear maps between (LF)-spaces. (English and Spanish summaries) **2004j:46003**
Bierstedt, Klaus D. (*with* Bonet, José) Projective description of weighted (LF)-spaces of holomorphic functions on the disc. (English summary) **2004f:46035**
Bonet, José *see* **Bierstedt, Klaus D.**, **2004f:46035**
Chen, Xiaoman (*with* Guo, Kun Yu) ★ Analytic Hilbert modules. **2004d:47024**
De Grande-De Kimpe, N. (*with* Kąkol, Jerzy; Pérez-García, Cristina) Metrizability of compactoid sets in non-Archimedean Hausdorff (LM)-spaces. (English summary) **2004d:46092**
Delcroix, Antoine (*with* Hasler, Maximilian F.; Pilipović, Stevan S.; Valmorin, Vincent) Generalized function algebras as sequence space algebras. (English summary) **2004m:46009**
Frerick, Leonhard (*with* Kunkle, D.; Wengenroth, Jochen) The projective limit functor for spectra of webbed spaces. (English summary) **2004j:46102**
Guo, Kun Yu *see* **Chen, Xiaoman**, **2004d:47024**
Hasler, Maximilian F. *see* **Delcroix, Antoine et al.**, **2004m:46009**
Jasiczak, M. On locally convex extension of H^∞ in the unit ball and continuity of the Bergman projection. (English summary) **2004c:32005**
Kąkol, Jerzy *see* **De Grande-De Kimpe, N. et al.**, **2004d:46092**
Kalmes, Thomas Examples of incomplete normed barrelled spaces. (English summary) **2004f:46004**
Kunkle, D. *see* **Frerick, Leonhard et al.**, **2004j:46102**
Pérez-García, Cristina *see* **De Grande-De Kimpe, N. et al.**, **2004d:46092**
Pilipović, Stevan S. *see* **Delcroix, Antoine et al.**, **2004m:46009**
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— *see also* **Frerick, Leonhard et al.**, **2004j:46102**

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46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)

Albiac, Fernando (*with* Kalton, Nigel J.; Leránoz, Camino) Uniqueness of unconditional bases in quasi-Banach spaces. (English summary) **2004e:46006**
Cabello Sánchez, Félix (*with* Castillo, Jesús M. F.) Answer to a question of S. Rolewicz. (English summary) **2004c:46005**
— Quasi-additive mappings. **2004k:46005**
Castillo, Jesús M. F. *see* **Cabello Sánchez, Félix**, **2004c:46005**
Kalton, Nigel J. *see* **Albiac, Fernando et al.**, **2004e:46006**
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Allis, James T., Jr. Subspaces of L_p for $0 \le p < 1$ that are admissible as kernels. (English summary) **2004g:46041**
Bustos Domecq, H. Vector-valued invariant means revisited. (English summary) **2004e:43001**
Domlo, Abdulaziz (*with* Khaleelulla, S. M.; Kutbi, Mirwan) Order-S-quasiultrabarrelled vector spaces. (English summary) **2004g:46004**
Guo, Tie Xin (*with* Zhu, Lin Hu) A characterization of continuous module homomorphisms on random semi-normed modules and its applications. (English summary) **2004b:60163**
Khaleelulla, S. M. *see* **Domlo, Abdulaziz et al.**, **2004g:46004**
Kutbi, Mirwan *see* **Domlo, Abdulaziz et al.**, **2004g:46004**
Mabizela, Sizwe Characterization of best approximations in metric linear spaces. (English summary) **2004a:41044**
Micherda, B. Bernstein's "lethargy" theorems in SF-spaces. (English summary) **2004b:41053**
Qiu, Jing Hui Robinson-Ursescu theorem in p-normed spaces. (English summary) **2004e:49027**
Zhu, Lin Hu *see* **Guo, Tie Xin**, **2004b:60163**

46A17 Bornologies and related structures; Mackey convergence, etc.

Aqzzouz, Belmesnaoui On an isomorphism in the category of b-spaces. (Russian. Russian summary) **2004j:46005**

Items with secondary classifications in 46A17

Akkar, Mohamed (*with* Ameziane Hassani, R.; Blali, A.) C-semi-groupes α-intégrés affiliés à des algèbres d'opérateurs. (English summary) [α-times integrated C-semigroups affiliated with algebras of operators] **2004g:47057**
Ameziane Hassani, R. *see* **Akkar, Mohamed et al.**, **2004g:47057**
Blali, A. *see* **Akkar, Mohamed et al.**, **2004g:47057**
Ould Sidaty, M. A. Reflexivity and AK-property of certain vector sequence spaces. (English summary) **2004k:46030**
Shaker Abdul-Hussein, Mushtaq (*with* Srivastava, G. S.) Bornological properties of the space of entire functions. (English summary) **2004b:30009**
Srivastava, G. S. *see* **Shaker Abdul-Hussein, Mushtaq**, **2004b:30009**

46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than R, etc.)

Items with secondary classifications in 46A19

Basaeva, E. K. (*with* Kusraev, Anatoliĭ Georgievich) On the quasi-differential of a composition. (Russian. Russian summary) **2004m:49046**

Bruguera, M. Montserrat (*with* Martín-Peinador, Elena) Banach-Dieudonné theorem revisited. (English summary) **2004e:22001**
Chilin, V. I. *see* **Ganiev, I. G., 2004m:46137**
Ganiev, I. G. (*with* Chilin, V. I.) Measurable bundles of C^*-algebras. (Russian. Russian summary) **2004m:46137**
Kusraev, Anatoliĭ Georgievich (*with* Pliev, M. A.) Orthogonally additive operators in lattice-normed spaces. (Russian. Russian summary)
— (*with* Pliev, M. A.) A weak integral representation of dominated orthogonally additive operators. (Russian. Russian summary)
— Cyclically compact operators in Banach spaces. (English summary)
— *see also* **Basaeva, E. K., 2004m:49046**
Martín-Peinador, Elena *see* **Bruguera, M. Montserrat, 2004e:22001**
Pliev, M. A. *see* **Kusraev, Anatoliĭ Georgievich**
Popescu, Angel (*with* Popescu, Nicolae; Zaharescu, Alexandru) Trace series on $\widetilde{\mathbb{Q}}_K$. (English summary) **2004h:11094**
Popescu, Nicolae *see* **Popescu, Angel et al., 2004h:11094**
Qian, Neng Sheng Generic Fréchet differentiability of convex operators. (Chinese. English and Chinese summaries) **2004e:46050**
Száz, Árpád Translation relations, the building blocks of compatible relators. (English summary) **2004h:20096**
Zaharescu, Alexandru *see* **Popescu, Angel et al., 2004h:11094**

46A20 Duality theory

Akbarov, S. S. Pontryagin duality in the theory of topological vector spaces and in topological algebra. **2004e:46006**
Bouchard, Bruno (*with* Mazliak, L.) A multidimensional bipolar theorem in $L^0(\mathbb{R}^d;\Omega,\mathcal{F},P)$. (English summary) **2004i:46001**
Mazliak, L. *see* **Bouchard, Bruno, 2004i:46001**

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Akbarov, S. S. (*with* Shavgulidze, E. T.) On two classes of spaces that are reflexive in the sense of Pontryagin. (Russian. Russian summary) **2004m:22002**
Bierstedt, Klaus D. (*with* Holtmanns, Silke) Weak holomorphy and other weak properties. (English summary) **2004m:46078**
Canu, Stephane *see* **Mary, Xavier et al., 2004d:46033**
De Brucq, Denis *see* **Mary, Xavier et al., 2004d:46033**
Feng, En Min *see* **Liu, Sanming, 2004e:90111**
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Laali, Javad Arens regularity of bilinear maps for Banach spaces. (English summary) **2004i:46011**
Liu, Sanming (*with* Feng, En Min) Fenchel duality theorem in multiobjective programming problems with set functions. (English summary) **2004e:90111**
Mary, Xavier (*with* De Brucq, Denis; Canu, Stephane) Sous-dualités et noyaux (reproduisants) associés. (English and French summaries) [Subdualities and associated (reproducing) kernels] **2004d:46033**
Rath, Nandita Topological duals of some paranormed sequence spaces. (English summary) **2004d:46008**
Saxon, Stephen A. *see* **Tweddle, Ian, 2004d:46003**
Shavgulidze, E. T. *see* **Akbarov, S. S., 2004m:22002**
Terzioğlu, Tosun (*with* Yurdakul, M.; Zakharyuta, V. P.) Factorization of unbounded operators on Köthe spaces. (English summary) **2004j:46008**
Tweddle, Ian (*with* Saxon, Stephen A.) Bornological countable enlargements. (English summary) **2004d:46003**
Yurdakul, M. *see* **Terzioğlu, Tosun et al., 2004j:46008**
Zakharyuta, V. P. *see* **Terzioğlu, Tosun et al., 2004j:46008**

46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [see also 46M10]

Bandyopadhyay, Pradipta (*with* Roy, Ashoke K.) Nested sequences of balls, uniqueness of Hahn-Banach extensions and the Vlasov property. (English summary) **2004e:46007**
Chalmers, Bruce L. (*with* Ostrovskii, M. I.; Shekhtman, Boris) Hahn-Banach operators: a review. (English summary) **2004e:46008**
Mustăţa, Costică Extensions of semi-Lipschitz functions on quasi-metric spaces. (English summary) **2004m:46005**
— On the extremal semi-Lipschitz functions. (English summary) **2004j:46006**
Ostrovskii, M. I. *see* **Chalmers, Bruce L. et al., 2004e:46008**
Roy, Ashoke K. *see* **Bandyopadhyay, Pradipta, 2004e:46007**
Shekhtman, Boris *see* **Chalmers, Bruce L. et al., 2004e:46008**
Simons, Stephen A new version of the Hahn-Banach theorem. (English summary) **2004j:46007**

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Aron, Richard M. An introduction to polynomials on Banach spaces. **2004f:46053**
Chalmers, Bruce L. An n-dimensional Hahn-Banach extension theorem and minimal projections. (English summary) **2004c:46022**
Dăneţ, Nicolae The space of regular operators with the Riesz decomposition property. (English summary) **2004e:47051**
Dăneţ, Rodica-Mihaela (*with* Wong, Ngai Ching) Extension theorems without Dedekind completeness. (English summary) **2004e:46032**
Guo, Tie Xin (*with* Zhu, Lin Hu) A characterization of continuous module homomorphisms on random semi-normed modules and its applications. (English summary) **2004b:60163**
Lima, Åsvald (*with* Oja, Eve) Hahn-Banach extension operators and spaces of operators. (English summary) **2004f:46027**
Mulvey, Christopher J. On the geometry of choice.
Mustăţa, Costică A Phelps type theorem for spaces with asymmetric norms. (English summary)
Nishihara, Masaru A Hahn-Banach extension theorem for entire functions of nuclear type. (English summary) **2004m:46106**
Oja, Eve *see* **Lima, Åsvald, 2004f:46027**
Olteanu, Octav Moment problems in sequence spaces. (English and Romanian summaries) **2004k:47026**
Pérez-García, Cristina (*with* Schikhof, W. H.) Finite-dimensional orthocomplemented subspaces in p-adic normed spaces. (English summary) **2004d:46099**
Romaguera, Salvador (*with* Sánchez Pérez, E. A.; Valero, O.) Dominated extensions of functionals and V-convex functions on cancellative cones. (English summary) **2004a:52001**
Sánchez Pérez, E. A. *see* **Romaguera, Salvador et al., 2004a:52001**
Schikhof, W. H. *see* **Pérez-García, Cristina, 2004d:46099**
Száz, Árpád Linear extensions of relations between vector spaces. (English summary) **2004j:47005**
Valero, O. *see* **Romaguera, Salvador et al., 2004a:52001**
Wong, Ngai Ching *see* **Dăneţ, Rodica-Mihaela, 2004e:46032**
Zając, Tomasz The norms of minimal projections onto some subspaces of $l_1^{(n)}$. (English summary) **2004k:41065**
Zhu, Lin Hu *see* **Guo, Tie Xin, 2004b:60163**
Zippin, M. Extension of bounded linear operators. **2004k:46024**

46A25 Reflexivity and semi-reflexivity [see also 46B10]

Items with secondary classifications in 46A25

Acosta, María D. (*with* Becerra Guerrero, Julio; Ruiz Galán, Manuel) Characterizations of the reflexive spaces in the spirit of James' Theorem. **2004e:46018**
Becerra Guerrero, Julio *see* **Acosta, María D. et al., 2004e:46018**
Kucera, Jan Reflexivity of inductive limits. (English summary) **2004k:46004**
Ruiz Galán, Manuel *see* **Acosta, María D. et al., 2004e:46018**

46A30 Open mapping and closed graph theorems; completeness (including B-, B_r-completeness)

Dodds, P. G. (*with* Semenov, Evgeniĭ Mikhaĭlovich; Sukochev, Fedor A.) The Banach-Saks property in rearrangement invariant spaces. (English summary) **2004m:46006**
Semenov, Evgeniĭ Mikhaĭlovich *see* **Dodds, P. G. et al., 2004m:46006**
Sukochev, Fedor A. *see* **Dodds, P. G. et al., 2004m:46006**

Items with secondary classifications in 46A30

Beckenstein, Edward (*with* Narici, Lawrence) Automatic continuity of basis separating maps. (English summary) **2004d:46091**
Domlo, Abdulaziz (*with* Khaleelulla, S. M.; Kutbi, Mirwan) Order-S-quasiultrabarrelled vector spaces. (English summary) **2004g:46004**
García-Martínez, Armando On sequentially retractive inductive limits. (English summary) **2004c:46004**
— Regular inductive limits of locally complete spaces. (English summary) **2004m:46004**
Khaleelulla, S. M. *see* **Domlo, Abdulaziz et al., 2004g:46004**
Kutbi, Mirwan *see* **Domlo, Abdulaziz et al., 2004g:46004**
Narici, Lawrence *see* **Beckenstein, Edward, 2004d:46091**
Qiu, Jing Hui Robinson-Ursescu theorem in p-normed spaces. (English summary) **2004e:49027**

46A32 Spaces of linear operators; topological tensor products; approximation properties [see also 46B28, 46M05, 47L05, 47L20]

Albanese, Angela Anna Projective descriptions of the (LF)-spaces of type $LB(\lambda_p(A),F)$. (English summary) **2004f:46005**
López Molina, J. A. (*with* Sánchez Pérez, E. A.) On ultra-products of some families of composition operators between certain finite dimensional l^p spaces. (English summary) **2004g:46003**
Sánchez Pérez, E. A. *see* **López Molina, J. A., 2004g:46003**

Items with secondary classifications in 46A32

Bierstedt, Klaus D. (*with* Holtmanns, Silke) Weak holomorphy and other weak properties. (English summary) **2004m:46078**
Boyd, Christopher (*with* Dineen, Seán; Rueda, Maria Pilar) Asplund operators on locally convex spaces. (English summary) **2004b:46001**
— Preduals of spaces of vector-valued holomorphic functions. (English summary) **2004c:46072**
Castillo, Jesús M. F. (*with* Simoes, Marilda A.) On p-summable sequences in locally convex spaces. **2004i:46002**
Dineen, Seán *see* **Boyd, Christopher et al., 2004b:46001**
Ferrando, J. C. Complemented copies of c_0 in spaces of operators. (English summary) **2004b:46022**
Holtmanns, Silke *see* **Bierstedt, Klaus D., 2004m:46078**
Ji, Un Cig (*with* Obata, Nobuaki) A unified characterization theorem in white noise theory. (English summary) **2004c:60195**
Obata, Nobuaki *see* **Ji, Un Cig, 2004c:60195**
Rueda, Maria Pilar *see* **Boyd, Christopher et al., 2004b:46001**
Simoes, Marilda A. *see* **Castillo, Jesús M. F., 2004i:46002**
Sofi, M. A. Embedding theorems in functional analysis. **2004a:46001**
Tang, Can Qin (*with* Yang, Da Chun[1]; Zhang, Pu[2]) Boundedness of generalized fractional integral operators. (English summary) **2004b:42033**
Terzioğlu, Tosun (*with* Zakharyuta, V. P.) Bounded factorization property for Fréchet spaces. (English summary) **2004k:46002**
Yang, Da Chun[1] *see* **Tang, Can Qin et al., 2004b:42033**
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46A35 Summability and bases [see also 46B15]

Castillo, Jesús M. F. (*with* Simoes, Marilda A.) On p-summable sequences in locally convex spaces. **2004i:46002**
Deheri, G. M. On $\lambda(P)$-strong basis. (English summary) **2004b:46002**
Korobeĭnik, Yu. F. On some classes of representing systems and their transformations. I. (Russian) **2004b:46003**
Simoes, Marilda A. *see* **Castillo, Jesús M. F., 2004i:46002**

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Albiac, Fernando (*with* Kalton, Nigel J.; Leránoz, Camino) Uniqueness of unconditional bases in quasi-Banach spaces. (English summary) **2004e:46006**
Goncharov, A. P. (*with* Zakharyuta, V. P.) Basis in the space of C^∞-functions on a graduated sharp cusp. (English summary) **2004a:46026**
Kalton, Nigel J. *see* **Albiac, Fernando et al., 2004e:46006**
Kondakov, V. P. On complemented subspaces of some Köthe spaces of infinite type. (Russian. Russian summary) **2004a:46004**
Konyagin, Sergei (*with* Temlyakov, Vladimir N.) Greedy approximation with regard to bases and general minimal systems. (English summary) **2004a:41025**
Leránoz, Camino *see* **Albiac, Fernando et al., 2004e:46006**
Polyrakis, Ioannis A. Lattice-subspaces and positive bases in function spaces. (English summary) **2004i:46004**
Śliwa, Wiesław On basic orthogonal sequences in non-Archimedean metrizable locally convex spaces. (English summary) **2004a:46072**
— On the quasi-equivalence of orthogonal bases in non-Archimedean metrizable locally convex spaces. (English summary) **2004i:46110**
— On the selection of basic orthogonal sequences in non-Archimedean metrizable locally convex spaces. (English summary) **2004h:46091**
— On block basic sequences in non-Archimedean Fréchet spaces. (English summary) **2004d:46100**
— On universal Schauder bases in non-Archimedean Fréchet spaces. (English summary) **2004i:46111**
Sofi, M. A. Embedding theorems in functional analysis. **2004a:46001**
Temlyakov, Vladimir N. *see* **Konyagin, Sergei, 2004a:41025**
Yang, Chang Sen On the commutativity of multiple series and basic sequence. (English summary) **2004d:46013**
Zakharyuta, V. P. *see* **Goncharov, A. P., 2004a:46026**

46A40 Ordered topological linear spaces, vector lattices [see also 06F20, 46B40, 46B42]

Aqzzouz, Belmesnaoui (*with* Nouira, Redouane) Sur les opérateurs précompacts positifs. (English and French summaries) [On positive precompact operators] **2004h:46002**
Boulabiar, Karim (*with* Buskes, Gerard; Triki, Abdelmajid) Some recent trends and advances in certain lattice ordered algebras. (English summary) **2004h:46003**
— On products in lattice-ordered algebras. (English summary) **2004e:46009**
Buskes, Gerard *see* **Boulabiar, Karim et al., 2004h:46003**
Domlo, Abdulaziz (*with* Khaleelulla, S. M.; Kutbi, Mirwan) Order-S-quasiultrabarrelled vector spaces. (English summary) **2004g:46004**
van Gaans, Onno Seminorms on ordered vector spaces that extend to Riesz seminorms on larger Riesz spaces. (English summary) **2004i:46003**
Khaleelulla, S. M. *see* **Domlo, Abdulaziz et al., 2004g:46004**
Komuro, Naoto Properties of the set of upper bounds in ordered linear spaces.
Kutbi, Mirwan *see* **Domlo, Abdulaziz et al., 2004g:46004**
Nouira, Redouane *see* **Aqzzouz, Belmesnaoui, 2004h:46002**
Polyrakis, Ioannis A. Lattice-subspaces and positive bases in function spaces. (English summary) **2004i:46004**
Sisto, Irene Lattices of unitary elements of a Riesz space with weak order unit: extension of modular functions. (Italian. English and Italian summaries) **2004f:46006**
Triki, Abdelmajid *see* **Boulabiar, Karim et al., 2004h:46003**
Wnuk, Witold Ultraproducts of F-lattices satisfy the σ-Lebesgue property. (English summary) **2004e:46010**
Wójtowicz, Marek Copies of l_∞ in quotients of locally solid Riesz spaces. (English summary) **2004f:46007**

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Abramovich, Yuriĭ Aleksandrovich (*with* Kitover, A. K.) Inverses and regularity of band preserving operators. (English summary) **2004h:47055**
Basaeva, E. K. (*with* Kusraev, Anatoliĭ Georgievich) On the quasi-differential of a composition. (Russian. Russian summary) **2004m:49046**
Boulabiar, Karim Some aspects of Riesz multimorphisms. (English summary) **2004j:47077**
— (*with* Buskes, Gerard) Polar decomposition of order bounded disjointness preserving operators. (English summary) **2004i:47070**
Burbanks, Andrew D. (*with* Nussbaum, Roger D.; Sparrow, Colin T.) Extension of order-preserving maps on a cone. (English summary) **2004a:47061**
Buskes, Gerard *see* **Boulabiar, Karim, 2004i:47070**
Cristescu, Romulus Linear operators and vector integrals in spaces with vector norm. **2004d:28035**
Flores, Julio (*with* Ruiz, César) Domination by positive narrow operators. (English summary) **2004k:47071**
Gök, Ömer On Maharam extensions of positive operators in the order duals of Riesz spaces. (English summary) **2004a:47035**
— On Maharam extensions of positive operators on Banach f-modules. (English summary) **2004h:47056**
— On Maharam extensions of positive operators on Banach lattices. (English summary) **2004i:47072**
Goodrich, R. K. *see* **Woo, L. W., 2004c:90063**
Grobler, J. J. (*with* de Pagter, B.) Operators representable as multiplication-conditional expectation operators. (English summary) **2004e:47043**
Hager, Anthony W. (*with* Kimber, Chawne M.; McGovern, Warren Wm.) Weakly least integer closed groups. (English summary) **2004j:06017**
Jakubík, Ján On Carathéodory vector lattices. (English summary) **2004m:06028**
Kimber, Chawne M. *see* **Hager, Anthony W. et al., 2004j:06017**
Kitover, A. K. *see* **Abramovich, Yuriĭ Aleksandrovich, 2004h:47055**
Komuro, Naoto *see* **Koshi, S., (2004i:00014)**
Koshi, S. (*with* Komuro, Naoto) Function space and ordered linear space. (English summary) (*see* **2004i:00014**)
Kusraev, Anatoliĭ Georgievich (*with* Malyugin, S. A.) The Stieltjes moment problem in vector lattices. (English summary)
— (*with* Pliev, M. A.) Orthogonally additive operators in lattice-normed spaces. (Russian. Russian summary)
— (*with* Pliev, M. A.) A weak integral representation of dominated orthogonally additive operators. (Russian. Russian summary)
— Modular measures and Maharam operators. (Russian. Russian summary)
— *see also* **Basaeva, E. K., 2004m:49046**
Luxemburg, W. A. J. (*with* de Pagter, B.) Maharam extensions of positive operators and f-modules. (English summary) **2004f:47051**
Malyugin, S. A. *see* **Kusraev, Anatoliĭ Georgievich**
McGovern, Warren Wm. *see* **Hager, Anthony W. et al., 2004j:06017**
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46A50 Compactness in topological linear spaces; angelic spaces, etc.

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46A55 Convex sets in topological linear spaces; Choquet theory [see also 52A07]

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46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)

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46A80 Modular spaces

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46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx.}

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(Pełczyński, Aleksander) *see* **Dedicated to Professor Aleksander Pełczyński on the occasion of his 70th birthday**

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46B50 Compactness in Banach (or normed) spaces

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46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx.}

46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)

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46C07 Hilbert subspaces (= operator ranges); complementation (Aronszajn, de Branges, etc.) [see also 46B70, 46M35]

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46C15 Characterizations of Hilbert spaces

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46C20 Spaces with indefinite inner product (Kreĭn spaces, Pontryagin spaces, etc.) [see also 47B50]

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46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)

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46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces, including de Branges-Rovnyak and other structured spaces) [see also 47B32]

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Villegas G., Jairo On vector-valued Hörmander-Beurling spaces. **2004h:46035**
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46E50 Spaces of differentiable or holomorphic functions on infinite-dimensional spaces [see also 46G20, 46G25, 47H60]

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46Fxx Distributions, generalized functions, distribution spaces [see also 46T30]

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46F05 Topological linear spaces of test functions, distributions and ultradistributions [see also 46E10, 46E35]

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Boykin, Timothy B. Derivatives of the Dirac delta function by explicit construction of sequences. (English summary) **2004b:46044**
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Manova-Eraković, Vesna Bounded subsets of distributions in D' generated with boundary values of functions of the space H^p, $1 \le p < \infty$. (English and Macedonian summaries) **2004i:46058**
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Yoshida, Satoru The Banach-Steinhaus theorem for the space $\mathscr{D}(\mathbb{R})$ in constructive analysis. (English summary) **2004b:46045**
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Besov, Oleg Vladimirovich Equivalent normings of spaces of functions of variable smoothness. (Russian) **2004m:46067**
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46F10 Operations with distributions

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Kempfle, Siegmar (*with* Beyer, Horst) The scope of a functional calculus approach to fractional differential equations. (English summary) **2004k:26010**
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Dixit, M. M. *see* **Pathak, R. S., 2004d:42038**
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Stankovic, Bogoljub A system of partial differential equations with fractional derivatives. (English summary) **2004g:46055**
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Waphare, B. B. *see* **Malgonde, S. P., 2004h:44002** *and* **2004k:44006**

46F15 Hyperfunctions, analytic functionals [see also 32A25, 32A45, 32C35, 58J15]

Chung, Jaeyoung (*with* Chung, Soon-Yeong; Kim, Dohan) Bochner Schwartz type theorem for conditionally positive definite Fourier hyperfunctions. (English summary) **2004h:46039**
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Yoshino, Kunio *see* **Suwa, Masanori, 2004m:46093**

46F20 Distributions and ultradistributions as boundary values of analytic functions [see also 30D40, 30E25, 32A40]

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Banerji, P. K. (*with* Debnath, Lokenath; Bhandari, Deshna) The kernel theorem for Cauchy ultradistribution. (English summary) **2004h:46041**
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Fernández, Carmen (*with* Galbis, A.; Gómez-Collado, M. C.) Bounded and almost periodic ultradistributions as boundary values of holomorphic functions. (English summary) **2004m:46090**
Galbis, A. *see* **Fernández, Carmen et al., 2004m:46090**
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Pahk, Dae Hyeon *see* **Sohn, Byung Keun, 2004f:46049**
Rechkoski, N. (*with* Rechkoski, Vasko) Analytic representation of a primitive distribution. (English and Macedonian summaries) **2004m:46091**
— (*with* Rechkoski, Vasko) Two examples of analytic representation of distributions. (English and Macedonian summaries) **2004m:46092**
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Sohn, Byung Keun (*with* Pahk, Dae Hyeon) Analytic representation of generalized tempered distributions of exponential growth by wavelets. (English summary) **2004f:46049**
Suwa, Masanori (*with* Yoshino, Kunio) A characterization of tempered distributions with support in a cone by the heat kernel method and its applications. (English summary) **2004m:46093**
Yoshino, Kunio *see* **Suwa, Masanori, 2004m:46093**

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Carton-Lebrun, C. (*with* Colacito, F.) Boundary values of Cauchy transforms in weighted spaces of integrable distributions. (English summary) **2004a:46042**
Colacito, F. *see* **Carton-Lebrun, C., 2004a:46042**
Komatsu, Hikosaburo Fourier's operational calculus and Balakrishnan's square roots. (*see* **2004i:47002**)
Mandai, Takeshi *see* **Ashino, Ryuichi, 2004j:42030**
Manova-Erakovič, Vesna Bounded subsets of distributions in D' generated with boundary values of functions of the space H^p, $1 \le p < \infty$. (English and Macedonian summaries) **2004i:46058**
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46F25 Distributions on infinite-dimensional spaces [see also 58C35]

Grasela, K. Generalized derivations and Fourier transform of polynomial ultradistributions. (English and Russian summaries) **2004m:46094**
Lee, Yuh-Jia (*with* Shih, Cheng-Yuh) The Riesz representation theorem on infinite dimensional spaces. (English summary) **2004e:46047**
Lytvynov, Eugene Polynomials of Meixner's type in infinite dimensions—Jacobi fields and orthogonality measures. (English summary) **2004k:46063**
Shih, Cheng-Yuh *see* **Lee, Yuh-Jia**, **2004e:46047**

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Asai, Nobuhiro (*with* Kubo, Izumi; Kuo, Hui-Hsiung) Gaussian and Poisson white noises with related characterization theorems. (English summary) **2004d:60179**
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Ji, Un Cig (*with* Obata, Nobuaki) A unified characterization theorem in white noise theory. (English summary) **2004c:60195**
— (*with* Obata, Nobuaki) Unitarity of Kuo's Fourier-Mehler transform. (English summary)
Kachanovskiĭ, N. A. On the extended stochastic integral connected with the gamma-measure on an infinite-dimensional space. (English summary) **2004f:60120**
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Kondrat'ev, Yu. G. (*with* Kuna, Tobias; Oliveira, Maria João) Analytic aspects of Poissonian white noise analysis. (English summary) **2004c:28023**
Kubo, Izumi *see* **Asai, Nobuhiro et al.**, **2004d:60179**
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Mierzejewski, Dmytro A. Generalized Jacobi fields. (English summary) **2004d:47129**
Obata, Nobuaki *see* **Ji, Un Cig**, **2004c:60195**
Oliveira, Maria João *see* **Kondrat'ev, Yu. G. et al.**, **2004c:28023**
Stan, Aurel A new Heisenberg inequality for white noise analysis. (English summary) **2004c:60196**

46F30 Generalized functions for nonlinear analysis (Rosinger, Colombeau, nonstandard, etc.)

Damyanov, B. P. On Mikusiński type distributional products $x_+^a \cdot x_-^b$ in Colombeau algebra $\mathfrak{g}(\mathbb{R})$. (English summary)
Garetto, Claudia Pseudo-differential operators in algebras of generalized functions and global hypoellipticity. (English summary) **2004m:46095**
Kunzinger, Michael (*with* Oberguggenberger, Michael; Steinbauer, Roland; Vickers, James A.) Generalized flows and singular ODEs on differentiable manifolds. (English summary) **2004k:46064**
Oberguggenberger, Michael Generalized functions in nonlinear models—a survey. (English summary) **2004d:46050**
— (*with* Pilipović, Stevan S.; Scarpalezos, Dimitris) Local properties of Colombeau generalized functions. (English summary) **2004e:46048**
— *see also* **Kunzinger, Michael et al.**, **2004k:46064**
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— *see also* **Oberguggenberger, Michael et al.**, **2004e:46048**
Ringel', D. E. Mnemonic numbers and mnemonic vectors. I. (Russian. English and Russian summaries) **2004e:46049**
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Vernaeve, H. Embedding distributions in algebras of generalized functions with singularities. (English summary) **2004b:46052**
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Vickers, James A. *see* **Kunzinger, Michael et al.**, **2004k:46064**

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Pasarić, Zoran On a class of stochastic evolution equations—pathwise approach. (English summary) **2004f:60130**
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Radyno, Ya. V. (*with* Ringel', D. E.) On the mnemofication functor. (Russian. English and Russian summaries) **2004h:46037**
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46F99 None of the above, but in this section

Eremenko, A. (*with* Novikov, Dmitri) Oscillation of functions with a spectral gap. (English summary) **2004m:46096**
Novikov, Dmitri *see* **Eremenko, A.**, **2004m:46096**

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Fisher, Brian (*with* Jolevska-Tuneska, Biljana; Kılıçman, Adem) On defining the incomplete gamma function. (English summary) **2004g:33007**
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Marti, J.-A. Nonlinear algebraic analysis of delta shock wave solutions to Burgers' equation. (English summary) **2004b:35287**

46Gxx Measures, integration, derivative, holomorphy (all involving infinite-dimensional spaces) [see also 28–XX, 46Txx]

46G05 Derivatives [see also 46T20, 58C20, 58C25]

Azagra, Daniel (*with* Jiménez-Sevilla, M.; Deville, Robert) On the range of the derivatives of a smooth function between Banach spaces. (English summary) **2004c:46069**
Bachir, M. (*with* Lancien, G.) On the composition of differentiable functions. (English summary) **2004h:46042**
Bongiorno, Donatella Rademacher theorem in separable Frechet spaces. (English summary) **2004d:46051**
Chernyĭ, A. V. (*with* Dubovenko, Yu. Ī.) On the theory of a structural problem of gravimetry in the complex plane. (Ukrainian. English summary) **2004a:46043**
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46G12 Measures and integration on abstract linear spaces [see also 28C20, 46T12]

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46G20 Infinite-dimensional holomorphy [see also 32–XX, 46E50, 46T25, 58B12, 58C10]

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46G25 (Spaces of) multilinear mappings, polynomials [see also 46E50, 46G20, 47H60]

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46G99 None of the above, but in this section

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46Hxx Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see 43A10, 43A20.}

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46H35 Topological algebras of operators [See mainly 47Lxx]

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46H70 Nonassociative topological algebras [see also 46K70, 46L70]

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46H99 None of the above, but in this section

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46Jxx Commutative Banach algebras and commutative topological algebras [see also 46E25]

46J05 General theory of commutative topological algebras

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46J10 Banach algebras of continuous functions, function algebras [see also 46E25]

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46J25 Representations of commutative topological algebras

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46J45 Radical Banach algebras

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46Kxx Topological (rings and) algebras with an involution [see also 16W10]

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46K10 Representations of topological algebras with involution

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46K15 Hilbert algebras

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46K70 Nonassociative topological algebras with an involution [see also 46H70, 46L70]

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46Lxx Selfadjoint operator algebras (C^*-algebras, von Neumann (W^*-) algebras, etc.) [see also 22D25, 47Lxx]

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46L57 Derivations, dissipations and positive semigroups in C^*-algebras

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46L60 Applications of selfadjoint operator algebras to physics [see also 46N50, 46N55, 47L90, 81T05, 82B10, 82C10]

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Xue, Yi Feng *see* **Hu, Shan Wen et al., 2004i:46083**
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46L85 Noncommutative topology [see also 58B32, 58B34, 58J22]

Kruml, David (*with* Pelletier, Joan Wick; Resende, Pedro; Rosický, Jiří) On quantales and spectra of C^*-algebras. (English summary) **2004i:46107**
Pelletier, Joan Wick *see* **Kruml, David et al., 2004i:46107**
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Christensen, Erik[1] On some problems studied by R. V. Kadison. (English summary) **2004k:46099**
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Forrest, Alan (*with* Hunton, John; Kellendonk, Johannes) Cohomology groups for projection point patterns. (English summary) **2004b:46099**
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Kucerovsky, Dan Extensions contained in ideals. (English summary) **2004j:19006**
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Puschnigg, Michael Diffeotopy functors of ind-algebras and local cyclic cohomology. (English summary) **2004k:46128**
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Schick, Thomas Operator algebras and topology. (English summary) **2004a:46070**
Sudo, Takahiro Stable rank of C^*-tensor products with the algebras of continuous functions on product spaces of intervals. (English summary) **2004i:46106**
Szymański, Wojciech *see* **Hajac, Piotr M. et al., 2004i:58007**

46L87 Noncommutative differential geometry [see also 58B32, 58B34, 58J22]

Chakraborty, Partha Sarathi (*with* Goswami, Debashish; Sinha, Kalyan B.) Probability and geometry on some noncommutative manifolds. (English summary) **2004d:46088**
Goswami, Debashish *see* **Chakraborty, Partha Sarathi et al., 2004d:46088**
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Matthes, Rainer *see* **Hajac, Piotr M. et al., 2004b:46102**
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Park, Chun-Gil Equivalence bimodule between spherical noncommutative tori. (English summary) **2004j:46099**
— The bundle structure of noncommutative tori over UHF-algebras. (English summary) **2004h:46087**
Rennie, A. Smoothness and locality for nonunital spectral triples. (English summary) **2004f:46086**
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Sinha, Kalyan B. *see* **Chakraborty, Partha Sarathi et al., 2004d:46088**
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Chakraborty, Partha Sarathi (*with* Pal, Arupkumar) Equivariant spectral triples on the quantum SU(2) group. (English summary) **2004k:58042**
— (*with* Pal, Arupkumar) Spectral triples and associated Connes-de Rham complex for the quantum SU(2) and the quantum sphere. (English summary) **2004k:58041**
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Connes, Alain Noncommutative geometry year 2000 [MR 2003g:58010]. (English summary) (*see* **2004d:00016**)
Conti, Roberto[2] (*with* Wang, Shuzhou) Covariant representations for coactions of Hopf C^*-algebras. (English summary) **2004c:46131**
Dąbrowski, Ludwik The garden of quantum spheres. (English summary) **2004k:58009**
Harvey, Jeffrey A. Topology of the gauge group in noncommutative gauge theory. (English summary) **2004b:81231**
Kim, Hoil (*with* Lee, Chang-Yeong) Noncommutative hyper-Kähler structure for $K3$ surfaces. (English summary) **2004h:81129**
Landsman, N. P. Quantized reduction as a tensor product. (English summary) **2004c:53138**
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Mishchenko, A. S. The development of noncommutative geometry at Moscow University. (Russian. Russian summary) **2004e:01061**
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Schmüdgen, Konrad (*with* Wagner, Elmar) Examples of twisted cyclic cocycles from covariant differential calculi. (English summary) **2004j:58006**
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Tarlini, M. *see* **Bonechi, Francesco et al., 2004k:58007**
Wagner, Elmar *see* **Schmüdgen, Konrad, 2004j:58006**
Wang, Shuzhou *see* **Conti, Roberto[2], 2004c:46131**

46L89 Other "noncommutative" mathematics based on C^*-algebra theory [see also 58B32, 58B34, 58J22]

Baaj, Saad (*with* Skandalis, Georges) Unitaires multiplicatifs commutatifs. (English and French summaries) [Commutative multiplicative unitaries] **2004c:46135**
Bédos, E. (*with* Tuset, L.) Amenability and co-amenability for locally compact quantum groups. (English summary) **2004k:46129**
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Koelink, H. Tjerk (*with* Kustermans, Johan) A locally compact quantum group analogue of the normalizer of $SU(1,1)$ in $SL(2,\mathbb{C})$. (English summary) **2004c:46136**
Kustermans, Johan *see* **Koelink, H. Tjerk, 2004c:46136**
Masuda, Tetsuya (*with* Nakagami, Y.; Woronowicz, S. L.) A C^*-algebraic framework for quantum groups. (English summary) **2004j:46100**
Nakagami, Y. *see* **Masuda, Tetsuya et al., 2004j:46100**
Oh, Sei-Qwon (*with* Park, Chun-Gil) Equivalence bimodule between non-commutative tori. (English summary) **2004i:46108**
Park, Chun-Gil *see* **Oh, Sei-Qwon, 2004i:46108**
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Vaksman, L. The maximum principle for "holomorphic functions" in the quantum ball. (Russian. English, Russian and Ukrainian summaries) **2004h:46088**
Walter, Martin E. Algebraic structures determined by 3 by 3 matrix geometry. (English summary) **2004c:46137**
Woronowicz, S. L. *see* **Masuda, Tetsuya et al., 2004j:46100**
Yamanouchi, Takehiko Canonical extension of actions of locally compact quantum groups. (English summary) **2004j:46101**

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Guentner, Erik *see* **Dadarlat, Marius, 2004e:20070**
Hamhalter, Jan ★ Quantum measure theory. **2004j:46085**
Kandelaki, Tamaz Multiplier and Hilbert C^*-categories. (English and Georgian summaries) **2004f:46087**
Kustermans, Johan Induced corepresentations of locally compact quantum groups. (English summary) **2004c:46106**
Lindsay, J. Martin (*with* Wills, Stephen J.) Homomorphic Feller cocycles on a C^*-algebra. (English summary) **2004g:81120**
Parthasarathy, Rajagopalan *see* **El Kacimi Alaoui, A., 2004h:46059**
Teichner, Peter Errata: "Knots, von Neumann signatures, and grope cobordism" [in *Proceedings of the International Congress of Mathematicians, Vol. II (Beijing, 2002)*, 437–446, Higher Ed. Press, Beijing, 2002; MR 2003m:19003]. (*see* **2004b:00013**)
— Knots, von Neumann signatures, and grope cobordism. (English summary) **2004a:57012**
Van Daele, Alfons Multiplier Hopf *-algebras with positive integrals: a laboratory for locally compact quantum groups. (English summary) **2004e:22006**
Wills, Stephen J. *see* **Lindsay, J. Martin, 2004g:81120**

46L99 None of the above, but in this section

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Hiai, Fumio (*with* Kosaki, Hideki) ★ Means of Hilbert space operators. **2004h:47029**
Honda, Tatsuhiro *see* **Chu, Cho-Ho, 2004g:46058**
Kosaki, Hideki *see* **Hiai, Fumio, 2004h:47029**
Kusraev, Anatoliĭ Georgievich Cyclically compact operators in Banach spaces. (English summary)
Mundici, Daniele *see* **Riečan, Beloslav, 2004a:28026**
Nicola, Fabio *see* **Boggiatto, Paolo, 2004g:58036**
Oh, Sei-Qwon (*with* Park, Chun-Gil) Linear functional equations in a Hilbert module. (English summary) **2004g:39050**
Okayasu, Rui Entropy of subshifts and the Macaev norm. (English summary) **2004j:47137**
Park, Chun-Gil Linear functional equations in Banach modules over a C^*-algebra. (English summary) **2004e:39034**
— Generalized Popoviciu functional equations in Banach modules over a C^*-algebra and approximate algebra homomorphisms. (English summary) **2004k:47067**
— *see also* **Oh, Sei-Qwon, 2004g:39050**
Riečan, Beloslav (*with* Mundici, Daniele) Probability on MV-algebras. **2004a:28026**
Suciu, Elena Alina ★ Homological methods in operator theory: Hilbert modules over function algebras. **2004j:46103**
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46Mxx Methods of category theory in functional analysis [see also 18–XX]

46M05 Tensor products [see also 46A32, 46B28, 47A80]

Items with secondary classifications in 46M05

Aqzzouz, Belmesnaoui On an isomorphism in the category of b-spaces. (Russian. Russian summary) **2004j:46005**
Bergmann, Wolfgang R. (*with* Conti, Roberto[2]) On infinite tensor products of Hilbert C^*-bimodules. (English summary) **2004k:46086**
Bu, Qing-Ying On Banach spaces verifying Grothendieck's theorem. (English summary) **2004h:46015**
Colojoară, Alexandra The M-Fréchet algebra of a Fréchet space. (English summary) **2004h:46001**
Conti, Roberto[2] *see* **Bergmann, Wolfgang R., 2004k:46086**
Dineen, Seán (*with* Sevilla-Peris, Pablo) Invertibility in tensor products of Q-algebras. (English summary) **2004c:46081**
— (*with* Harte, Robin E.; Taylor, Ciaran) Spectra of tensor product elements. III. Holomorphic properties. (English summary) **2004f:46058**
Ènеeva, Leĭla M. Some cross norms on tensor products in ordered Banach spaces. (Russian)
Harte, Robin E. *see* **Dineen, Seán et al., 2004f:46058**
Hussein, D. *see* **Khandaqji, M. et al., 2004m:46063**
Khalil, Roshdi Minimal projections in tensor product spaces. (English summary) **2004d:41063**
— *see also* **Khandaqji, M. et al., 2004m:46063**
Khandaqji, M. (*with* Hussein, D.; Khalil, Roshdi) Isometries of $L^\Phi(I)\hat{\otimes}L^\Phi(I)$. (English and Arabic summaries) **2004m:46063**
Khudalov, V. T. Cones in the tensor products of ordered Banach spaces. (Russian. Russian summary)
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Magajna, Bojan Normal operator modules and tensor products. **2004g:46077**
Mirzavaziri, Madjid On tensor product of $*$-derivations. (English summary) (*see* **2004e:46005**)
Sánchez Pérez, E. A. *see* **López Molina, J. A., 2004g:46003**
Sevilla-Peris, Pablo *see* **Dineen, Seán, 2004c:46081**
Sherman, David Relative tensor products for modules over von Neumann algebras. (English summary) **2004g:46078**
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Taylor, Ciaran *see* **Dineen, Seán et al., 2004f:46058**
Thai Thuan Quang On holomorphic functions of unformly bounded type on tensor products. (English summary) [On holomorphic functions of uniformly bounded type on tensor products] **2004k:46068**
Tylli, Hans-Olav Duality of the distance to closed operator ideals. (English summary) **2004c:47144**
Ülger, A. Erratum to: "Arens regularity of the algebra $A\hat{\otimes}B$" [Trans. Amer. Math. Soc. **305** (1988), no. 2, 623–639; MR 89c:46064]. **2004g:46064**
Williams, Dana P. Tensor products with bounded continuous functions. (English summary) **2004h:46068**

46M07 Ultraproducts [see also 46B08, 46S20]

Items with secondary classifications in 46M07

Bustos Domecq, H. Vector-valued invariant means revisited. (English summary) **2004e:43001**
Cabello Sánchez, Félix (*with* Castillo, Jesús M. F.) Banach space techniques underpinning a theory for nearly additive mappings. **2004a:39053**
Castillo, Jesús M. F. *see* **Cabello Sánchez, Félix, 2004a:39053**
Cherix, Pierre-Alain (*with* Cowling, Michael; Straub, Bernd) Filter products of C_0-semigroups and ultraproduct representations for Lie groups. (English summary) **2004j:47081**
Cowling, Michael *see* **Cherix, Pierre-Alain et al., 2004j:47081**
Henson, C. Ward (*with* Iovino, José) Ultraproducts in analysis. **2004d:03001**
Iovino, José *see* **Henson, C. Ward, 2004d:03001**
Straub, Bernd *see* **Cherix, Pierre-Alain et al., 2004j:47081**

46M10 Projective and injective objects [see also 46A22]

Items with secondary classifications in 46M10

Frank, Michael (*with* Paulsen, Vern Ival) Injective envelopes of C^*-algebras as operator modules. (English summary) **2004h:46060**
Paulsen, Vern Ival *see* **Frank, Michael, 2004h:46060**
Pirkovskiĭ, A. Yu. Some results on injective topological modules and injective homological dimensions. (English summary) **2004h:46051**

46M15 Categories, functors {For K-theory, EXT, etc., see 19K33, 46L80, 46M18, 46M20.}

Kandelaki, Tamaz Multiplier and Hilbert C^*-categories. (English and Georgian summaries) **2004f:46087**

Items with secondary classifications in 46M15

Akbarov, S. S. Pontryagin duality in the theory of topological vector spaces and in topological algebra. **2004c:46006**
Brouwer, R. M. A bicategorical approach to Morita equivalence for von Neumann algebras. (English summary) **2004b:46085**
Dosiev, Anar A. Homological dimensions of the algebra of entire functions of elements of a nilpotent Lie algebra. (Russian) **2004d:46054**
Joachim, Michael K-homology of C^*-categories and symmetric spectra representing K-homology. (English summary) **2004m:46156**
Kirichenko, Anatoliĭ A. (*with* Kruglyak, Stanīslav A.) On the spectrum of a sum of projections and Coxeter functors. (Ukrainian. English and Ukrainian summaries)
Kock, Anders (*with* Reyes, Gonzalo E.) Some calculus with extensive quantities: wave equation. (English summary) **2004g:35143**
Kruglyak, Stanīslav A. *see* **Kirichenko, Anatoliĭ A.**
Kruml, David (*with* Pelletier, Joan Wick; Resende, Pedro; Rosický, Jiří) On quantales and spectra of C^*-algebras. (English summary) **2004i:46107**
Landsman, N. P. Quantization as a functor. (English summary) **2004c:53154**
Manuilov, V. M. Asymptotic homomorphisms into the Calkin algebra. (English summary) **2004b:46100**
— (*with* Thomsen, Klaus E.) E-theory is a special case of KK-theory. **2004m:19009**
Müger, Michael From subfactors to categories and topology. I. Frobenius algebras in and Morita equivalence of tensor categories. (English summary) **2004f:18013**
— From subfactors to categories and topology. II. The quantum double of tensor categories and subfactors. (English summary) **2004f:18014**
Pavlović, Branka The category of compact metric spaces and its functional analytic duals. (English summary) **2004g:18004**
Pelletier, Joan Wick *see* **Kruml, David et al., 2004i:46107**
Puschnigg, Michael Diffeotopy functors of ind-algebras and local cyclic cohomology. (English summary) **2004k:46128**
Resende, Pedro *see* **Kruml, David et al., 2004i:46107**
Reyes, Gonzalo E. *see* **Kock, Anders, 2004g:35143**
Ringel', D. E. Mnemonic numbers and mnemonic vectors. I. (Russian. English and Russian summaries) **2004e:46049**
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Spielberg, John S. A functorial approach to the C^*-algebras of a graph. (English summary) **2004e:46084**
Thomsen, Klaus E. *see* **Manuilov, V. M., 2004m:19009**
Yamagami, Shigeru C^*-tensor categories and free product bimodules. (English summary) **2004a:46062**

46M18 Homological methods (exact sequences, right inverses, lifting, etc.)

Douglas, Ronald G. (*with* Misra, Gadadhar) Quasi-free resolutions of Hilbert modules. (English summary) **2004i:46109**
Frerick, Leonhard (*with* Kunkle, D.; Wengenroth, Jochen) The projective limit functor for spectra of webbed spaces. (English summary) **2004j:46102**
Kunkle, D. *see* **Frerick, Leonhard et al., 2004j:46102**
Misra, Gadadhar *see* **Douglas, Ronald G., 2004i:46109**
Suciu, Elena Alina ★ Homological methods in operator theory: Hilbert modules over function algebras. **2004j:46103**
Wengenroth, Jochen ★ Derived functors in functional analysis. **2004d:46090**
— A conjecture of Palamodov about the functors Ext^k in the category of locally convex spaces. (English summary) **2004c:46138**
— *see also* **Frerick, Leonhard et al., 2004j:46102**

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Boersema, Jeffrey L. Real C^*-algebras, united K-theory, and the Künneth formula. (English summary) **2004b:46072**
Cabello Sánchez, Félix (*with* Castillo, Jesús M. F.; Kalton, Nigel J.; Yost, D. T.) Twisted sums with $C(K)$ spaces. (English summary) **2004f:46010**
Castillo, Jesús M. F. *see* **Cabello Sánchez, Félix et al., 2004f:46010**
Christensen, Erik[1] (*with* Pop, Florin; Sinclair, Allan M.; Smith, Roger R.) Hochschild cohomology of factors with property Γ. (English summary) **2004h:46072**
— (*with* Pop, Florin; Sinclair, Allan M.; Smith, Roger R.) Property Γ factors and the Hochschild cohomology problem. (English summary) **2004f:46070**
Domański, Paweł (*with* Jakubczyk, B.) Linear continuous division for exterior and interior products. (English summary) **2004e:46034**
Glotko, N. V. On the complex of Sobolev spaces associated with an abstract Hilbert complex. (Russian. Russian summary) **2004h:46030**
Greene, Devin C. V. Free resolutions in multivariable operator theory. (English summary) **2004c:47014**
Jakubczyk, B. *see* **Domański, Paweł, 2004e:46034**
Johansen, Ørjan (*with* Rustad, Alf B.) The homology of spaces of simple topological measures. (English summary) **2004i:28025**
Kalton, Nigel J. *see* **Cabello Sánchez, Félix et al., 2004f:46010**
Mallios, Anastasios (*with* Rosinger, Elemer E.) Dense singularities and de Rham cohomology. (English summary) **2004e:58004**
Paulsen, Vern Ival (*with* Smith, Roger R.) Diagonals in tensor products of operator algebras. (English summary) **2004e:46071**
Pop, Florin *see* **Christensen, Erik[1] et al., 2004f:46070** *and* **2004h:46072**
Rennie, A. Smoothness and locality for nonunital spectral triples. (English summary) **2004f:46086**
Rosinger, Elemer E. *see* **Mallios, Anastasios, 2004e:58004**
Runde, Volker The operator amenability of uniform algebras. (English summary) **2004h:46050**
Rustad, Alf B. *see* **Johansen, Ørjan, 2004i:28025**
Sinclair, Allan M. *see* **Christensen, Erik[1] et al., 2004f:46070** *and* **2004h:46072**
Smith, Roger R. *see* **Paulsen, Vern Ival, 2004e:46071**; **Christensen, Erik[1] et al., 2004f:46070** *and* **2004h:46072**
Thomsen, Klaus E. On the KK-theory and the E-theory of amalgamated free products of C^*-algebras. (English summary) **2004d:46086**
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46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [see also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 46M15, 46M18, 55Rxx]

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46M35 Abstract interpolation of topological vector spaces [see also 46B70]

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46M40 Inductive and projective limits [see also 46A13]

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46M99 None of the above, but in this section

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46N10 Applications in optimization, convex analysis, mathematical programming, economics

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Borwein, Jonathan M. (*with* Fitzpatrick, S. P.; Girgensohn, Roland) Subdifferentials whose graphs are not norm × weak* closed. (English summary) **2004h:49024**
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46N20 Applications to differential and integral equations

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46N30 Applications in probability theory and statistics

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Chang, Kun Soo (*with* Kim, Byung Soo[1]; Park, Cheong Hee; Ryu, Kun Sik) A generalized analytic operator-valued function space integral and a related integral equation. (English summary) **2004f:60119**
Chen, Mu Fa Variational formulas and explicit bounds of Poincaré-type inequalities for one-dimensional processes. (English summary) **2004g:26014**
Da Prato, Giuseppe ★ An introduction to infinite dimensional analysis. **2004i:46070**
Ezzaki, Fatima Mosco convergence of multivalued SLLN. (English summary)
Fan, Ming Some inequalities for p-variations of martingales. (English summary) **2004m:60089**
Fannes, Mark (*with* Spincemaille, P.) The mutual affinity of random measures. (English summary) **2004m:60110**
Feyel, D. (*with* Üstünel, A. S.) Monge-Kantorovitch measure transportation and Monge-Ampère equation on Wiener space. (English summary) **2004m:60121**
Franz, Uwe[1] Unification of Boolean, monotone, anti-monotone, and tensor independence and Lévy processes. (English summary) **2004f:46077**
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46Sxx Other (nonclassical) types of functional analysis [see also 47Sxx]

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46S99 None of the above, but in this section

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46Txx Nonlinear functional analysis [see also 47Hxx, 47Jxx, 58Cxx, 58Dxx]

46T05 Infinite-dimensional manifolds [see also 53Axx, 57N20, 58Bxx, 58Dxx]

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46T12 Measure (Gaussian, cylindrical, etc.) and integrals (Feynman, path, Fresnel, etc.) on manifolds [see also 28Cxx, 46G12, 60–XX]

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46T20 Continuous and differentiable maps [see also 46G05]

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47Axx General theory of linear operators

47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)

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47A12 Numerical range, numerical radius

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47A13 Several-variable operator theory (spectral, Fredholm, etc.)

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47A16 Cyclic and hypercyclic vectors

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47A20 Dilations, extensions, compressions

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47A30 Norms (inequalities, more than one norm, etc.)

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47A35 Ergodic theory [see also 28Dxx, 37Axx]

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47A40 Scattering theory [see also 34L25, 35P25, 81Uxx]

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— Dissipative second-order difference operators with general boundary conditions. (English summary) **2004k:39051**
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Bazargan, J. (*with* Egorova, I. E.) Jacobi operator with step-like asymptotically periodic coefficients. (English summary) **2004i:47055**
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Kadowaki, Mitsuteru On a framework of scattering for dissipative systems. **2004c:35315**
Kheifets, A. Abstract interpolation scheme for harmonic functions. (English summary) **2004k:47025**
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Ra'ed, Hatamleh A functional model for a family of operators induced by Laguerre operator. (English summary) **2004c:47023**
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Yafaev, D. R. High-energy and smoothness asymptotic expansion of the scattering amplitude. (English summary) **2004f:35134**

47A45 Canonical models for contractions and nonselfadjoint operators

Agler, J. (*with* Young, Nicholas J.) A model theory for Γ-contractions. (English summary) **2004b:47008**
Chalendar, Isabelle (*with* Fricain, E.; Timotin, Dan) Functional models and asymptotically orthonormal sequences. (English and French summaries) **2004k:47016**
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Kérchy, László On the factorization of operator-valued functions. (English summary) **2004d:47026**
Kubrusly, Carlos S. Asymptotically partially isometric contractions. (English summary) **2004i:47019**
Kuperin, Yu. A. (*with* Naboko, Sergei N.; Romanov, Roman V.) Spectral analysis of the transport operator: a functional model approach. (English summary) **2004a:47011**
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Conway, John B. (*with* Ptak, Marek) The harmonic functional calculus and hyperreflexivity. (English summary) **2004d:47036**
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Melik-Adamyan, P. È. On the characteristic function of a dissipative extension in the spectral theory of canonical operators. (Russian. English and Russian summaries) **2004m:47100**
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47A48 Operator colligations (= nodes), vessels, linear systems, characteristic functions, realizations, etc.

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— (*with* Azizov, T. Ya.; Dijksma, Aad; Langer, Heinz) The Schur algorithm for generalized Schur functions. II. Jordan chains and transformations of characteristic functions. (English summary) **2004b:47010**
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Ball, Joseph A. (*with* Bolotnikov, Vladimir) A bitangential interpolation problem on the closed unit ball for multipliers of the Arveson space. (English summary) **2004c:47033**
Bercovici, Hari Spectral versus classical Nevanlinna-Pick interpolation in dimension two. (English summary) **2004g:47019**
Bolotnikov, Vladimir *see* **Ball, Joseph A., 2004c:47033**
Dijksma, Aad *see* **Alpay, Daniel et al., 2004j:46034** *and* **2004k:47022**
Gromov, V. P. Order and type of an operator, and entire vector-valued functions. (Russian. English and Russian summaries) **2004i:47063**
Kheifets, A. Abstract interpolation scheme for harmonic functions. (English summary) **2004k:47025**
Langer, Heinz *see* **Alpay, Daniel et al., 2004k:47022**
Marcano, J. G. (*with* Morán, M. D.) The Arov-Grossman model and the Burg multivariate entropy. (English summary) **2004k:60101**
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47A50 Equations and inequalities involving linear operators, with vector unknowns

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Gevorgyan, Levon On the convergence rate of iterations and the normalized numerical range of an operator. (English summary) **2004j:47018**
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Xue, Yi Feng (*with* Chen, Guo Liang[1]) Some equivalent conditions of stable perturbation of operators in Hilbert spaces. (English summary) **2004g:47018**
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Bakushinskiĭ, A. B. On the rate of convergence of iterative regularization algorithms for solving linear problems with convex constraints. (Russian. Russian summary) **2004a:65033**
Ben-Israel, Adi (*with* Greville, Thomas N. E.) ★ Generalized inverses. **2004b:15008**
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Brychev, S. V. *see* **Sviridyuk, G. A., 2004k:65125**
Chen, Guo Liang[1] (*with* Wei, Mu Sheng) The minimal property of the condition number of invertible linear bounded operators in Banach spaces. (English summary) **2004a:65064**
Dzhishkariani, Adam V. (*with* Khvedelidze, R. E.) On projection-iteration method. (English summary) **2004m:65072**
Falcón Rodríguez, Carlos Manuel *see* **García Cruz, María Antonia, 2004e:47023**
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Gzyl, Henryk Ill-posed linear inverse problems and maximum entropy in the mean. (English and Spanish summaries) **2004a:65067**
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Luchka, A. Yu. (*with* Kucheruk, T. A.) An iterative method for constructing solutions of linear equations with restrictions. (Ukrainian. English and Ukrainian summaries) **2004a:65065**
Matsuura, Tsutomu *see* **Saitoh, Saburou et al., 2004i:46040**
Podlevs'kiĭ, B. M. A numerical method for solving a class of nonlinear spectral problems. (Ukrainian. English, Russian and Ukrainian summaries) **2004c:65057**
Ramm, Alexander G. Dynamical systems method for solving operator equations. (English summary) **2004m:47161**
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Saitoh, Saburou Reproducing kernels and a family of bounded linear operators. (English summary) **2004i:46039**
— (*with* Matsuura, Tsutomu; Asaduzzaman, Md.) Operator equations and best approximation problems in reproducing kernel Hilbert spaces. (English summary) **2004i:46040**
Schindler, I. (*with* Tintarev, K.) An abstract version of the concentration compactness principle. (English summary) **2004b:35056**
Schuster, Thomas *see* **Rieder, Andreas, 2004c:65059**
Sevast'yanov, Ya. M. (*with* Tanana, V. P.) Optimal methods for solving linear equations of the first kind with an approximately specified operator. (Russian. Russian summary) **2004k:65268**
Shaw, Sen-Yen (*with* Li, Yuan-Chuan) On solvability of $Ax = y$, approximate solutions, and uniform ergodicity. (English summary) **2004e:47014**
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Solodkiĭ, S. G. On a discretization scheme for the Landweber method. (Russian. Russian summary) **2004m:65077**
Soltanov, K. N. (*with* Fayziyev, A. S.) On the complexity characteristics of some problems. (English and Azerbaijani summaries) **2004c:65181**
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47A52 Ill-posed problems, regularization

Gramsch, Simone (*with* Schock, Eberhard) Ill-posed equations with transformed argument. **2004f:47019**
Ivanov, Valentin Konstantinovich (*with* Vasin, V. V.; Tanana, V. P.) ★ Theory of linear ill-posed problems and its applications. **2004j:47020**
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Tanana, V. P. (*with* Menikhes, L. D.) On the regularizability of linear inverse problems in Banach spaces. (Russian. English and Russian summaries) **2004h:47017**
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Pereverzev, Sergei V. On the sparse representation of operators for solving ill-posed problems. (English summary) **2004g:65082**
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Rieder, Andreas ★ Keine Probleme mit inversen Problemen. (German) [No problems with inverse problems] **2004m:65076**
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— (*with* Yaparova, N. M.) On the optimality of the residual method. (Russian. Russian summary) **2004k:65100**
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47A64 Operator means, shorted operators, etc.

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47A65 Structure theory

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47A66 Quasitriangular and nonquasitriangular, quasidiagonal and nonquasidiagonal operators

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47A67 Representation theory

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47A68 Factorization theory (including Wiener-Hopf and spectral factorizations)

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47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces

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47A75 Eigenvalue problems [see also 49R50]

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47A80 Tensor products of operators [see also 46M05]

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47A99 None of the above, but in this section

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47Bxx Special classes of linear operators

47B06 Riesz operators; eigenvalue distributions; approximation numbers, s-numbers, Kolmogorov numbers, entropy numbers, etc. of operators

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47B07 Operators defined by compactness properties

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47B10 Operators belonging to operator ideals (nuclear, p-summing, in the Schatten-von Neumann classes, etc.) [see also 47L20]

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Otte, Peter Enclosure results for second-order relative spectra by elementary means. (English summary) **2004h:47031**
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47B36 Jacobi (tridiagonal) operators (matrices) and generalizations

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47B37 Operators on special spaces (weighted shifts, operators on sequence spaces, etc.)

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Komori, Yasuo Weak type estimates for commutators on Herz-type spaces. (English summary) **2004e:42018**
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47B48 Operators on Banach algebras

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Fošner, Ajda *see* **Brešar, Matej et al., 2004d:47071**
Gromov, V. P. Order and type of an operator, and entire vector-valued functions. (Russian. English and Russian summaries) **2004i:47063**
Hou, Jin Chuan (*with* Cui, Jian Lian) Rank-1 preserving linear maps on nest algebras. (English summary) **2004c:47078**
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Lu, Fang Yan Jordan triple maps. (English summary) **2004i:47064**
Mathieu, Martin (*with* Schick, Gerhard J.) Spectrally bounded operators from von Neumann algebras. (English summary) **2004c:47079**
— (*with* Sourour, Ahmed Ramzi) Hereditary properties of spectral isometries. (English summary) **2004m:47073**
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Park, Chun-Gil Generalized Popoviciu functional equations in Banach modules over a C^*-algebra and approximate algebra homomorphisms. (English summary) **2004k:47067**
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47B49 Transformers (= operators on spaces of operators)

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Bin, Ren² (*with* Ji, Guo Xing) Certain structure of similarity-preserving linear maps. (English summary) **2004m:47074**
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— (*with* Guo, Maozheng; Hou, Jin Chuan) Rank-1 nilpotency linear preservers on nest algebras. (English summary) **2004k:47068**
Du, Shuan-ping (*with* Hou, Jin Chuan) Asymptotic similarity preserving additive maps on $\mathcal{B}(X)$. (English summary) **2004m:47075**
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Ech-Cherif El Kettani, Mustapha (*with* El Bouchibti, El Houcine) Sur les transformations additives qui conservent le spectre de surjection. [Additive transformations that preserve the surjectivity spectrum] **2004c:47081**
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Foiaş, Ciprian (*with* Jung, Il Bong; Ko, Eungil; Pearcy, Carl M.) Complete contractivity of maps associated with the Aluthge and Duggal transforms. (English summary) **2004d:47072**
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Jung, Il Bong *see* **Foiaş, Ciprian et al., 2004d:47072**
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— (*with* Li, Pengtong) Jordan isomorphisms of $\mathcal{J}$-subspace lattice algebras. (English summary) **2004f:47104**

— (*with* Li, Pengtong) Algebraic isomorphisms and Jordan derivations of $\mathcal{J}$-subspace lattice algebras. (English summary) **2004m:47162**

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Luo, Jian Wen (*with* Lu, Fang Yan) Isometries of the preannihilators of weakly closed $\mathcal{T}(\mathcal{N})$-modules. (Chinese. English and Chinese summaries) **2004b:47125**

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47B50 Operators on spaces with an indefinite metric [see also 46C50]

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Ćurgus, Branko (*with* Langer, Heinz) Continuous embeddings, completions and complementation in Krein spaces. (English and Serbo-Croatian summaries) **2004i:46032**

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47B60 Operators on ordered spaces

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Mouton, S. Convergence properties of positive elements in Banach algebras. (English summary) **2004d:47074**
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47D09 Operator sine and cosine functions and higher-order Cauchy problems [see also 34G10]

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47H05 Monotone operators (with respect to duality)

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Chowdhury, Mohammad S. R. (*with* Haque, Abul L.; Thompson, Heven Bevan; Quasem, G. M. A.) The surjectivity of pseudo-monotone type III operators in reflexive Banach spaces. (English summary) **2004m:47114**
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Hadjisavvas, Nicolas Maximal pseudomonotone operators. (English summary) **2004h:47074**
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Haque, Abul L. *see* **Chowdhury, Mohammad S. R. et al., 2004m:47114**
Hokkanen, Veli-Matti (*with* Moroşanu, Gheorghe) ★ Functional methods in differential equations. (English summary) **2004i:47094**
Hui, Shu Rong (*with* Zhang, Guo Wei[1]; Zhou, Fu Cai) The range of perturbed m-accretive operators and maximal monotone operators. (Chinese. English and Chinese summaries)
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Xia, Yu Sen *see* **Gao, Gai Liang et al.**
Zeng, Liu Chuan Asymptotic behavior of almost-orbits of asymptotically nonexpansive families in the intermediate sense. (Chinese. English and Chinese summaries) **2004i:47095**
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Zhou, Fu Cai *see* **Hui, Shu Rong et al.**
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Borwein, Jonathan M. (*with* Fitzpatrick, S. P.; Girgensohn, Roland) Subdifferentials whose graphs are not norm × weak* closed. (English summary) **2004h:49024**
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Burachik, Regina Sandra (*with* Svaiter, B. F.) Maximal monotonicity, conjugation and the duality product. (English summary) **2004a:49037**
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Crouzeix, Jean Pierre ★ Generalized convexity and generalized monotonicity. **2004g:90082**
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Donchev, Tzanko (*with* Georgiev, Pando Gr.) Relaxed submonotone mappings. (English summary) **2004b:49036**
Fang, Ya Ping (*with* Huang, Nan Jing) H-monotone operator and resolvent operator technique for variational inclusions. (English summary)
— (*with* Huang, Nan Jing) Variational-like inequalities with generalized monotone mappings in Banach spaces. (English summary) **2004g:49009**
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Fitzpatrick, S. P. (*with* Simons, Stephen) The conjugates, compositions and marginals of convex functions. (English summary) **2004f:49065**
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Lignola, Maria Beatrice *see* **Del Prete, Imma et al., 2004c:49061**
Luca, Rodica An asymptotic result for the solutions of a higher order hyperbolic problem. (English summary)
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Raucci, Roberto Monotonicity, isotonicity and indecomposability for vector-valued functions, and applications. (Italian. English summary) **2004k:49043**
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Simons, Stephen A new version of the Hahn-Banach theorem. (English summary) **2004j:46007**
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Svaiter, B. F. Fixed points in the family of convex representations of a maximal monotone operator. (English summary) **2004h:49016**
— *see also* **Burachik, Regina Sandra, 2004a:49037**
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47H06 Accretive operators, dissipative operators, etc.

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Apreutesei, Narcisa Existence and asymptotic behavior for some difference equations associated with accretive operators. (English summary) **2004g:39034**
Bai, Chuan-Zhi (*with* Fang, Jin-Xuan) A system of nonlinear variational inclusions in real Banach spaces. (English summary) **2004g:49008**
Barbu, Viorel (*with* Da Prato, Giuseppe) Elliptic problems with unbounded drift coefficients and Neumann boundary condition. (English summary) **2004c:35079**
Bénilan, Philippe (*with* Igbida, Noureddine) The mesa problem for Neumann boundary value problem. (English summary) **2004k:35178**
Chen, Yu Qing (*with* Kim, Jong Kyu) Anti-periodic solutions for first order semilinear evolution equations. (English summary) **2004b:34153**
Chidume, C. E. (*with* Zegeye, H.) Iterative approximation of solutions of nonlinear equations of Hammerstein type. **2004d:47114**
— (*with* Aneke, S. J.) A local approximation method for the solution of K-positive definite operator equations. (English summary) **2004i:47134**
— (*with* Zegeye, H.) Approximation methods for nonlinear operator equations. (English summary) **2004a:47082**
— (*with* Zegeye, H.) Approximate fixed point sequences and convergence theorems for Lipschitz pseudocontractive maps. (English summary) **2004j:47114**
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Da Prato, Giuseppe *see* **Barbu, Viorel, 2004c:35079**
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Fang, Jin-Xuan *see* **Bai, Chuan-Zhi, 2004g:49008**
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— (*with* Gao, Gai Liang; Liu, Li Hong) On the solvability of equations involving m-accretive operators with perturbations in Banach spaces. (Chinese. English and Chinese summaries) **2004c:47137**

47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces

Burbanks, Andrew D. (*with* Nussbaum, Roger D.; Sparrow, Colin T.) Extension of order-preserving maps on a cone. (English summary) **2004a:47061**

Chen, Yong-Zhuo The limit points of asymptotic ray-contractive operators. (English summary) **2004m:47115**
— Omega limit sets in positive cones. (English summary) **2004i:47096**
Herzog, Gerd Quasimonotonicity. (English summary) **2004c:47104**
— On quasimonotone homeomorphisms in ordered Banach spaces. (English summary) **2004f:47079**
Nussbaum, Roger D. *see* **Burbanks, Andrew D. et al., 2004a:47061**
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Butnariu, Dan (*with* Iusem, Alfredo N.; Zălinescu, Constantin) On uniform convexity, total convexity and convergence of the proximal point and outer Bregman projection algorithms in Banach spaces. (English summary) **2004e:90161**
Carl, Siegfried (*with* Heikkilä, Seppo) Existence results for equations in ordered Hilbert spaces and elliptic BVP's. (English summary) **2004d:35069**
— (*with* Motreanu, Dumitru) Quasilinear elliptic inclusions of hemivariational type: extremality and compactness of the solution set. (English summary) **2004g:35244**
Chen, Yong-Zhuo Fixed points for discontinuous monotone operators. (English summary) **2004j:47113**
Heikkilä, Seppo *see* **Carl, Siegfried, 2004d:35069**
Herzog, Gerd (*with* Lemmert, Roland) One-sided estimates for quasimonotone increasing functions. (English summary) **2004b:34086**
Iusem, Alfredo N. *see* **Butnariu, Dan et al., 2004e:90161**
Khanin, Konstantin *see* **Vladimirov, A. A. et al., 2004m:47150**
Khmelëv, D. V. *see* **Vladimirov, A. A. et al., 2004m:47150**
Krause, Ulrich Concave Perron-Frobenius theory and applications. (English summary) **2004f:39038**
Lemmert, Roland *see* **Herzog, Gerd, 2004b:34086**
Li, Dong Sheng (*with* Li, Kai Tai) On a conjecture on fixed point indices of positive mappings in cones. (Chinese. English and Chinese summaries) **2004e:47093**
Li, Fu Yi *see* **Liu, Jin Sheng[2], 2004k:47107**
Li, Kai Tai *see* **Li, Dong Sheng, 2004e:47093**
Li, Shengjia *see* **Liang, Zhan Dong et al., 2004b:47083**
Liang, Zhan Dong (*with* Zhang, Ling-ling; Li, Shengjia) Fixed point theorems for a class of mixed monotone operators. (English summary) **2004h:47083**
Liu, Jin Sheng[2] (*with* Li, Fu Yi) Fixed point theorems of two-point expansion type for mixed-monotone operators. (Chinese. English and Chinese summaries) **2004k:47107**
Motreanu, Dumitru *see* **Carl, Siegfried, 2004g:35244**
Nussbaum, Roger D. *see* **Burbanks, Andrew D. et al., 2004g:06010**
Oseledets, V. I. *see* **Vladimirov, A. A. et al., 2004m:47150**
Rybko, A. N. *see* **Vladimirov, A. A. et al., 2004m:47150**
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Xie, Xue Jun *see* **Zhang, Ke Mei, 2004b:47122**
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Zhang, Ke Mei (*with* Xie, Xue Jun) Solution and coupled minimal-maximal quasi-solutions of nonlinear non-monotone operator equations in Banach spaces. (English and Chinese summaries) **2004b:47122**
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47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness and condensing mappings, A-proper mappings, K-set contractions, etc.)

Aldea, Florica Some homeomorphism theorems. (English summary)
Atsushiba, Sachiko Strong convergence theorems for families of asymptotically nonexpansive mappings. (Japanese)
Bauschke, Heinz H. The composition of projections onto closed convex sets in Hilbert space is asymptotically regular. (English summary) **2004b:47085**
— (*with* Matoušková, Eva; Reich, Simeon) Projection and proximal point methods: convergence results and counterexamples. (English summary) **2004m:47116**
Butnariu, Dan (*with* Reich, Simeon; Zaslavski, Alexander J.) Generic power convergence of nonlinear operators in Banach spaces. (English summary) **2004m:47117**
— (*with* Reich, Simeon; Zaslavski, Alexander J.) Weak convergence of orbits of nonlinear operators in reflexive Banach spaces. (English summary) **2004e:47083**
Byrne, Charles A unified treatment of some iterative algorithms in signal processing and image reconstruction. (English summary) **2004k:47097**
Chen, Dong Qing[1] *see* **Gao, Gai Liang et al.**
Chidume, C. E. (*with* Khumalo, M.; Zegeye, H.) Generalized projection and approximation of fixed points of nonself maps. (English summary) **2004j:47103**
— (*with* Ofoedu, E. U.; Zegeye, H.) Strong and weak convergence theorems for asymptotically nonexpansive mappings. (English summary) **2004d:47086**
Cho, Yeol Je (*with* Zhou, Hai Yun; Hyun, H. G.; Kim, Jong Kyu) Convergence theorems of iterative sequences for asymptotically nonexpansive type mappings in Banach spaces. (English summary) **2004b:47086**
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Djafari Rouhani, Behzad Ergodic theorems for expansive maps and applications to evolution systems in Hilbert space. (English summary) **2004f:47080**
Domínguez Benavides, Tomás (*with* López Acedo, Genaro; Xu, Hong-Kun) Construction of sunny nonexpansive retractions in Banach spaces. (English summary) **2004d:47087**
— Geometric properties of Banach spaces and metric fixed point theory. **2004f:47081**
Duma, Adrian (*with* Vladimirescu, Cristian) Semi-numerical approximation structures for nonlinear noncompact operators in Banach spaces. (English summary) **2004i:47097**
El-Farag, Ibrahim Abou *see* **El-Sayed, Ahmed M. A. et al., 2004m:47118**
El-Sayed, Ahmed M. A. (*with* Sherif, Nagwa; El-Farag, Ibrahim Abou) On an operator functional equation in $L_1[0,\infty)$ and Volterra-Fredholm type integral equations. (English summary) **2004m:47118**
Gao, Gai Liang (*with* Chen, Dong Qing[1]; Wu, Chen Yu; Zhou, Hai Yun) A strong convergence theorem for a class of operators in Banach spaces. (Chinese. English and Chinese summaries)
Goebel, Kazimierz (*with* Kirk, W. A.) Classical theory of nonexpansive mappings. **2004c:47105**
— (*with* Szczepanik, Mariusz) A problem concerning mappings with constant displacement. (English summary)
Grabiec, Mariusz *see* **Zhou, Hai Yun et al., 2004h:47077**
Gunawardena, Jeremy (*with* Walsh, Cormac) Iterates of maps which are non-expansive in Hilbert's projective metric. (English summary) **2004m:47119**
He, Chang Convergence problem of iterative sequences with errors for asymptotically nonexpansive mappings. (English summary) **2004e:47084**
Huang, Nan Jing *see* **Lan, Heng You et al., 2004d:47088**
Hyun, H. G. *see* **Cho, Yeol Je et al., 2004b:47086**
Igbokwe, D. I. Construction of fixed points of strictly pseudocontractive mappings of Browder-Petryshn type in arbitrary Banach spaces. (English summary) **2004j:47104**
Iiduka, Hideaki (*with* Takahashi, Wataru) Convergence theorems with applications for nonexpansive mappings and monotone mappings. (Japanese)
Kaczor, Wiesława (*with* Kuczumow, Tadeusz; Reich, Simeon) A mean ergodic theorem for mappings which are asymptotically nonexpansive in the intermediate sense. (English summary) **2004b:47087**
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Kirk, W. A. (*with* Reich, Simeon; Veeramani, P.) Proximinal retracts and best proximity pair theorems. (English summary) **2004i:47098**
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Kiuchi, Hirobumi *see* **Kim, Gang Eun et al., 2004a:47062**
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47H14 Perturbations of nonlinear operators

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47H20 Semigroups of nonlinear operators

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47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskiĭ, Uryson, etc.) [see also 45Gxx, 45P05]

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47H40 Random operators [see also 60H25]

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47H60 Multilinear and polynomial operators [see also 46G25]

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47J06 Nonlinear ill-posed problems

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47J07 Abstract inverse mapping and implicit function theorems [see also 46T20 and 58C15]

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47J35 Nonlinear evolution equations [see also 34G20, 35K90, 35L90, 35Qxx, 35R20, 37Kxx, 37Lxx, 58D25]

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47Lxx Linear spaces and algebras of operators [see also 46Lxx]

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47L07 Convex sets and cones of operators [see also 46A55]

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47L15 Operator algebras with symbol structure

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47L20 Operator ideals

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47L25 Operator spaces (= matricially normed spaces) [see also 46L07]

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47L30 Abstract operator algebras on Hilbert spaces

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47L35 Nest algebras, CSL algebras

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47L45 Dual algebras; weakly closed singly generated operator algebras

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47L55 Representations of (nonselfadjoint) operator algebras

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47L60 Algebras of unbounded operators; partial algebras of operators

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47L65 Crossed product algebras (analytic crossed products)

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47L70 Nonassociative nonselfadjoint operator algebras

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47L75 Other nonselfadjoint operator algebras

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Lu, Shi Jie *see* **Li, Pengtong et al.**, **2004m:47167**
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47L80 Algebras of specific types of operators (Toeplitz, integral, pseudodifferential, etc.)

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47L90 Applications of operator algebras to physics

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47L99 None of the above, but in this section

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47Nxx Miscellaneous applications of operator theory [see also 46Nxx]

47N10 Applications in optimization, convex analysis, mathematical programming, economics

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47N30 Applications in probability theory and statistics

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49–01 Instructional exposition (textbooks, tutorial papers, etc.)

van Brunt, Bruce ★ The calculus of variations. **2004m:49001**
Cloud, Michael J. *see* **Lebedev, Leonid P., 2004k:49001**
Crouzeix, Jean Pierre (*with* Ocaña, Eladio; Sosa, Wilfredo) ★ Análisis convexo. (Spanish) [Convex analysis] **2004g:49001**
Hull, David G. ★ Optimal control theory for applications. **2004m:49002**
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Ocaña, Eladio *see* **Crouzeix, Jean Pierre et al., 2004g:49001**
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49–02 Research exposition (monographs, survey articles)

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(Chibisov, Dmitrii) *see* **Magaril-Il′yaev, Georgii G., 2004k:49002**
Chukwu, Ethelbert Nwakuche ★ Stability and time-optimal control of hereditary systems. **2004a:49001**
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— (*with* Motreanu, Dumitru) ★ Variational and hemivariational inequalities: theory, methods and applications. Vol. II. **2004m:49005**
Haslinger, J. (*with* Mäkinen, R. A. E.) ★ Introduction to shape optimization. **2004d:49001**
(Knill, Oliver) *see* **Moser, Jürgen K., 2004f:49001**
Luderer, Bernd (*with* Minchenko, Leonid I.; Satsura, Tatyana) ★ Multivalued analysis and nonlinear programming problems with perturbations. **2004b:49001**
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Kurzke, Matthias ★ Geometrische Variationsprobleme auf mehrfach zusammenhängenden ebenen Gebieten. (German) [Geometric variational problems on multiply connected plane domains] **2004a:49048**
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49–03 Historical (must also be assigned at least one classification number from Section 01)

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49–04 Explicit machine computation and programs (not the theory of computation or programming)

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49–06 Proceedings, conferences, collections, etc.

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49Jxx Existence theories

49J05 Free problems in one independent variable

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49J15 Optimal control problems involving ordinary differential equations

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49J20 Optimal control problems involving partial differential equations

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49J22 Optimal control problems involving integral equations

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49J24 Optimal control problems involving differential inclusions [see also 34A60]

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49J25 Optimal control problems involving equations with retarded arguments [see also 34K35]

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49J27 Problems in abstract spaces [see also 90C48, 93C25]

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Plekhanova, M. V. The set of relations that characterize an optimal control for Sobolev-type equations. (Russian. Russian summary) **2004g:49045**
Stockbridge, Richard H. The problem of moments on polytopes and other bounded regions. (English summary) **2004j:44009**
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49J30 Optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)

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49Kxx Necessary conditions and sufficient conditions for optimality

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49K15 Problems involving ordinary differential equations

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49Lxx Hamilton-Jacobi theories, including dynamic programming

49L20 Dynamic programming method

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49L25 Viscosity solutions

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49M27 Decomposition methods

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49N60 Regularity of solutions

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49N70 Differential games

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49N75 Pursuit and evasion games

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49Q12 Sensitivity analysis

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49Q20 Variational problems in a geometric measure-theoretic setting

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— Lecture notes on optimal transport problems. (*see* **2004h:35002**)
— (*with* Rigot, S.) Optimal mass transportation in the Heisenberg group. (English summary) **2004m:49107**
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Lecture Notes in Mathematics *see* **Ambrosio, Luigi et al., 2004h:35002** *and* **2004m:49007**
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Mathematical aspects of evolving interfaces *see* **Ambrosio, Luigi et al., 2004h:35002**
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49Q99 None of the above, but in this section

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49R50 Variational methods for eigenvalues of operators [see also 47A75]

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49S05 Variational principles of physics

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51–XX Geometry {For algebraic geometry, see 14–XX.}

51–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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51–01 Instructional exposition (textbooks, tutorial papers, etc.)

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51–02 Research exposition (monographs, survey articles)

Bálint, Vojtech A short survey of (r, q)-structures. (English summary) (*see* **2004i:00017**)
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51–06 Proceedings, conferences, collections, etc.

(Blokhuis, Aart) *see* **Finite geometries**, **2004k:51001** *and* **Proceedings: Conference on Finite Geometries**
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(Pasini, Antonio) *see* **Topics in diagram geometry**, **2004m:51002**
(Pritchard, Chris) *see* **Changing shape of geometry**, **2004f:51001**
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51Axx Linear incidence geometry

51A05 General theory and projective geometries

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51A10 Homomorphism, automorphism and dualities

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51A15 Structures with parallelism

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— (*with* Żynel, Mariusz) Geometry of the structure of linear complements. (English summary) **2004m:51003**
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51A20 Configuration theorems

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51A25 Algebraization [see also 12Kxx, 20N05]

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51A30 Desarguesian and Pappian geometries

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51A35 Non-Desarguesian affine and projective planes

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51A40 Translation planes and spreads

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51A45 Incidence structures imbeddable into projective geometries

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Blunck, Andrea The cross ratio for quadruples of subspaces. (English summary) **2004m:51005**
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51A50 Polar geometry, symplectic spaces, orthogonal spaces

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Gramlich, Ralf On the hyperbolic symplectic geometry. (English summary) **2004k:51005**
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Metsch, Klaus On the size of maximal caps in $Q^+(5,q)$. (English summary) **2004k:51012**
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51A99 None of the above, but in this section

Kuijken, L. (*with* van Maldeghem, Hendrik) On the definition and some conjectures of fuzzy projective planes by Gupta and Ray, and a new definition of fuzzy building geometries. (English summary)
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51Bxx Nonlinear incidence geometry

51B05 General theory

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Bröcker, Olaf Eight and seven point degenerations of Miquel's theorem in Laguerre planes. (English summary) **2004c:51002**
Karzel, Helmut *see* **Alinovi, Benedetta, 2004a:51007**

51B10 Möbius geometries

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Kurtuluş, Aytaç On arcs in a finite Mobius plane. (English summary) **2004f:51007**

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51B15 Laguerre geometries

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List, Klaus *see* **Havlicek, Hans, (2004k:00020)**

51B20 Minkowski geometries

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Dutkevich, Yu. G. On the complete upper angle about a point on the Minkowski plane. (Russian. English and Russian summaries) **2004m:51043**
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51B25 Lie geometries

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51C05 Ring geometry (Hjelmslev, Barbilian, etc.)

Blunck, Andrea (*with* Havlicek, Hans) Jordan homomorphisms and harmonic mappings. (English summary) **2004i:51003**
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51Dxx Geometric closure systems

51D20 Combinatorial geometries [see also 05B25, 05B35]

Araujo, Gabriela (*with* San Agustín Chi, Rodolfo) A graph representation of the mystic hexagram configuration. (English summary) **2004e:51002**
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Turner, John Christopher Some fractals in goldpoint geometry. **2004c:51003**

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Betten, Dieter (*with* Wenzel, Walter) On linear spaces and matroids of arbitrary cardinality. (English summary) **2004m:05056**
Li, Feng Gao² The graph induced by affine m-flats over finite fields. II. (English summary) **2004e:05048**
Miller, William P. Unique representability and matroid reconstruction. (English summary) **2004b:05054**
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51D25 Lattices of subspaces [see also 05B35]

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Jablan, Slavik V. (*with* Radović, Ljiljana M.) Computational derivation of antisymmetry and colored symmetry groups. (English summary) **2004h:20070**
Radović, Ljiljana M. *see* **Jablan, Slavik V., 2004h:20070**
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51Exx Finite geometry and special incidence structures

51E05 General block designs [see also 05B05]

Aguglia, Angela Designs arising from Buekenhout-Metz unitals. (English summary) **2004a:51005**

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Das, Ashish D. *see* **Gupta, Vinod Kumar et al., 2004g:05026**
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Gupta, Vinod Kumar (*with* Parsad, Rajender; Das, Ashish D.) Variance balanced block designs with unequal block sizes. (English summary) **2004g:05026**
Iwasaki, Shiro Translations of the squares in a finite field and an infinite family of 3-designs. (English summary) **2004b:05033**
Klin, Mikhail (*with* Reichard, Sven) A partial linear space on 96 points, the icosahedron, and other related combinatorial structures.
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51E10 Steiner systems

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Ling, Alan C. H. Hyperovals in Steiner systems. (English summary) **2004g:51001**
van Maldeghem, Hendrik Some remarks on Steiner systems. (English summary) **2004f:51008**
Muse, William B. (*with* Phelps, Kevin T.) Orthogonal quadruple systems and 3-frames. (English summary) **2004k:51006**
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Gentile, Giuseppe A hypergroupal characterization of collinearity in a Steiner system. (English summary) **2004k:05047**

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Markovski, Smile *see* **Goračinova-Ilieva, Lidija et al.**

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Wu, Dian Hua *see* **Ge, Gen Nian, 2004h:05018**

51E12 Generalized quadrangles, generalized polygons

Bader, Laura (*with* Trombetti, Rocco) Translation ovoids of flock generalized quadrangles. (English summary) **2004m:51011**

Brown, Matthew R. (*with* De Beule, J.; Storme, Leo) Maximal partial spreads of $T_2(\mathscr{O})$ and $T_3(\mathscr{O})$. (English summary) **2004b:51005**

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— New near polygons from Hermitian varieties. (English summary) **2004m:51012**

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O'Keefe, Christine M. *see* **Cherowitzo, William E. et al., 2004c:51007**

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51E14 Finite partial geometries (general), nets, partial spreads

Abatangelo, Vito (*with* Larato, Bambina) Doubly β-derived translation planes. (English summary) **2004b:51006**

Barát, János (*with* Del Fra, Alberto; Innamorati, S.; Storme, Leo) Minimal blocking sets in PG$(2, 8)$ and maximal partial spreads in PG$(3, 8)$. (English summary) **2004k:51010**

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Ferret, S. (*with* Storme, Leo) Results on maximal partial spreads in PG$(3, p^3)$ and on related minihypers. (English summary) **2004f:51012**

Ferri, Stefania On some type $(1, m, n)_2$ sets of PG$(3, q)$. (English summary) **2004f:51013**

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Innamorati, S. *see* **Barát, János et al., 2004k:51010**

Jungnickel, Dieter (*with* Storme, Leo) A note on maximal partial spreads with deficiency $q + 1$, q even. (English summary) **2004d:51001**

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— (*with* De Clerck, Frank; Delanote, Mario) Affine semipartial geometries and projections of quadrics. (English summary) **2004g:51002**

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51E15 Affine and projective planes

Araujo Pardo, M. Gabriela Daisy structure in Desarguesian projective planes. (English summary) **2004d:51002**
Busarkina, I. V. Some 2-properties of the autotopism group of a p-primitive semifield plane of rank 4. (Russian. English and Russian summaries) **2004e:51008**
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Lunardon, Guglielmo Translation ovoids. (English summary) **2004g:51005**
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Thas, Koen Finite flag-transitive projective planes: a survey and some remarks. (English summary) **2004f:51015**
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51E20 Combinatorial structures in finite projective spaces [see also 05Bxx]

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51E23 Spreads and packing problems

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51E24 Buildings and the geometry of diagrams

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51E25 Other finite nonlinear geometries

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51E26 Other finite linear geometries

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51Fxx Metric geometry

51F05 Absolute planes

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51F10 Absolute spaces

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51F25 Orthogonal and unitary groups [see also 20H05]

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51H10 Topological linear incidence structures

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51H15 Topological nonlinear incidence structures

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51H30 Geometries with algebraic manifold structure [see also 14–XX]

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51J05 General theory

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51Kxx Distance geometry

51K05 General theory

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51L15 n-vertex theorems via direct methods

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51M04 Elementary problems in Euclidean geometries

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51M09 Elementary problems in hyperbolic and elliptic geometries

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51M16 Inequalities and extremum problems {For convex problems, see 52A40.}

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51M20 Polyhedra and polytopes; regular figures, division of spaces [see also 51F15]

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51M25 Length, area and volume [see also 26B15]

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51M30 Line geometries and their generalizations [see also 53A25]

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51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [see also 14M15]

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51M99 None of the above, but in this section

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51Nxx Analytic and descriptive geometry

51N05 Descriptive geometry [see also 65D17, 68U07]

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51N10 Affine analytic geometry

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Korczak, Eugeniusz A quadratic transformation based on a straight line and a conic. (English summary) **2004c:51019**
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Havlicek, Hans Veronese varieties over fields with non-zero characteristic: a survey. (English summary) **2004j:51017**
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51N99 None of the above, but in this section

Aoyagi, Miki *see* **Tsuji, Kumiko**
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Fearnley, David L. (*with* Fearnley, L.; Lamoreaux, J. W.) Every three-point set is zero dimensional. (English summary) **2004b:51022**
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51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70–86)

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52–XX Convex and discrete geometry

52–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Delekta, Henri) *see* **Lo Jacomo, François, 2004h:52001**
Grünbaum, Branko ★ Convex polytopes. **2004b:52001**
(Kaibel, Volker) *see* **Grünbaum, Branko, 2004b:52001**
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Lang, Robert J. ★ Origami design secrets. **2004g:52001**
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(Björner, Anders) *see* **Matoušek, Jiří, 2004i:55001**
Matoušek, Jiří ★ Using the Borsuk-Ulam theorem. **2004i:55001**
(Ziegler, Günter M.) *see* **Matoušek, Jiří, 2004i:55001**

52–02 Research exposition (monographs, survey articles)

Bezdek, András Open problems. (*see* **2004i:00017**)

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52–03 Historical (must also be assigned at least one classification number from Section 01)

Hart, George W. In the palm of Leonardo's hand: modeling polyhedra.
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52–04 Explicit machine computation and programs (not the theory of computation or programming)

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52–06 Proceedings, conferences, collections, etc.

(Akiyama, Jin) *see* **Discrete and computational geometry, 2004j:52001**
(Fejes Tóth, Gábor) *see* **Workshop: Discrete Geometry and Convexity**
(Gévay, Gábor) *see* **Polyhedra**
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52Axx General convexity

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52A20 Convex sets in n dimensions (including convex hypersurfaces) [see also 53A07, 53C45]

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52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [see also 46Bxx]

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Martinez-Maure, Yves Théorie des hérissons et polytopes. (English and French summaries) [Hedgehog theory and polytopes] **2004c:52003**
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Milman, Vitali D. *see* **Litvak, A. E., 2004b:46008**
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Zhang, Zi Hou A note on weak drop property for bounded closed convex sets. (Chinese. English and Chinese summaries) **2004c:46031**

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Schütt, Carsten Best and random approximation of convex bodies by polytopes. (English summary) **2004b:52009**
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Bernig, Andreas (*with* Bröcker, Ludwig) Lipschitz-Killing invariants. (English summary) **2004a:53098**
Bosetto, Elena Problems of Buffon type for large test bodies. (English summary) **2004b:60027**
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Caristi, Giuseppe (*with* Niglia, Andrea) Geometric probabilities for non-regular lattice. (English summary) **2004j:60021**
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52A27 Approximation by convex sets

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52A39 Mixed volumes and related topics

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52A40 Inequalities and extremum problems

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Kashiwabara, Kenji (*with* Okamoto, Yoshio) A greedy algorithm for convex geometries. (English summary) **2004j:90091**
Klartag, Bo'az A geometric inequality and a low M-estimate. (English summary) **2004m:46029**
Kozeratskaya, L. N. (*with* Forbes, J. Fraser; Goebel, R. G.; Kresta, J. V.) Perturbed cones for analysis of uncertain multi-criteria optimization problems. (English summary) **2004k:90113**
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— (*with* Yang, Deane; Zhang, Gaoyong) Moment-entropy inequalities. (English summary) **2004k:60026**
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52A41 Convex functions and convex programs [see also 26B25, 90C25]

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Barbet, Luc Convex extensions of convex functions by sequential processes. (English summary) **2004k:26016**
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— (*with* Byrne, Charles; Censor, Yair) Redundant axioms in the definition of Bregman functions. (English summary) **2004f:90165**
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El Biari, Aouatef (*with* Ellaia, Rachid; Raïssouli, Mustapha) Stability of geometric and harmonic functional means. (English summary) **2004f:49064**
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Ghomi, Mohammad The problem of optimal smoothing for convex functions. (English summary) **2004d:26013**
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— Sur la somme de sous-différentiels de fonctions semi-continues inférieurement. (English and French summaries) [The sum of subdifferentials of lower semicontinuous functions] **2004m:49049**
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Léonard, Christian Convex conjugates of integral functionals. (English summary) **2004a:49038**
Ling, Chen *see* **Hu, Yu Da**, **2004i:49037**
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Lupşa, Liana *see* **Cristescu, Gabriela**, **2004i:52001**
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Parra, Juan *see* **Cánovas, María J. et al.**, **2004c:49037**
Popa, Cristian Constantin *see* **Artstein, Zvi**, **2004m:49041**
Popovici, Nicolae *see* **Benoist, Joël**, **2004f:49036**
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Thibault, Lionel *see* **Combari, Christophe et al.**, **2004e:49018**
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Uvarova, M. A. *see* **Stoyan, Yu. G. et al.**
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Wang, Ming-Zheng (*with* Xia, Zun Quan) Approximation to the subdifferential mappings of convex functions. (English summary) **2004k:49039**
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Youness, Ebrahim A. E-convex functions and non-linear programming. (English summary) **2004m:90151**
Yuan, George Xian-Zhi *see* **Wu, Xian[3] et al.**, **2004j:54026**
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Zhang, Hui-Li Some nonlinear problems in hyperconvex metric spaces. (English summary) **2004k:47121**

52A55 Spherical and hyperbolic convexity

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Leichtweiß, Kurt On the addition of convex sets in the hyperbolic plane. (English summary) **2004m:52021**
Naveira, A. M. *see* **Gallego Gómez, Eduardo et al.**, **2004k:52011**
Park, In Kue *see* **Lee, Young Soo et al.**, **2004a:52016**
Rivin, Igor Combinatorial optimization in geometry. (English summary) **2004i:52005**
Solanes, Gil *see* **Gallego Gómez, Eduardo et al.**, **2004k:52011**
Yang, Jeong Mo *see* **Lee, Young Soo et al.**, **2004a:52016**

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Peri, Carla *see* **Dulio, Paolo**, **2004c:52002**

52A99 None of the above, but in this section

El-Sayied, Hoda K. Study on generalized convex fuzzy bodies. (English summary) **2004m:52022**
Wang, Li Juan *see* **Yang, Wan Cai**
Wang, Shao Rong *see* **Yang, Ze Heng et al.**
Wu, Xian[3] *see* **Yang, Ze Heng et al.**
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Grötschel, Martin (*with* Henk, Martin) The representation of polyhedra by polynomial inequalities. (English summary) **2004b:14098**
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Tao, Terence C. *see* **Iosevich, Alexander et al.**, **2004i:42020**

52Bxx Polytopes and polyhedra

Items with secondary classifications in 52Bxx

Grünbaum, Branko ★ Convex polytopes. **2004b:52001**
(Kaibel, Volker) *see* **Grünbaum, Branko**, **2004b:52001**
(Klee, Victor) *see* **Grünbaum, Branko**, **2004b:52001**
(Ziegler, Günter M.) *see* **Grünbaum, Branko**, **2004b:52001**

52B05 Combinatorial properties (number of faces, shortest paths, etc.) [see also 05Cxx]

Adams, Joshua (*with* Zvengrowski, Peter; Laird, Philip G.) Vertex embeddings of regular polytopes. (English summary) **2004h:52008**
Bárány, Imre (*with* Kuperberg, Krystyna; Zamfirescu, Tudor) Total curvature and spiralling shortest paths. (English summary) **2004h:52009**
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Bisztriczky, Tibor (*with* Böröczky, Károly, Jr.; Gunderson, David S.) Cyclic polytopes, hyperplanes, and Gray codes. (English summary) **2004j:52008**
Böröczky, Károly The Newton-Gregory problem revisited. (English summary) **2004m:52023**
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Bressler, Paul (*with* Lunts, Valery A.) Intersection cohomology on nonrational polytopes. (English summary) **2004b:52016**
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Hartley, Michael I. Quotients of some finite universal locally projective polytopes. (English summary) **2004a:52017**
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Hood, Jeffrey (*with* Perkinson, David) Some facets of the polytope of even permutation matrices. (English summary) **2004m:52024**
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Károlyi, Gyula *see* **Hosono, Kiyoshi et al.**, **2004k:52012**
Klein, Andreas[1] (*with* Wessler, Markus) The largest small n-dimensional polytope with $n+3$ vertices. (English summary) **2004b:52018**
Kołodziejczyk, Krzysztof Hex-triangles with one interior H-point. (English summary) **2004j:52010**
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Doignon, Jean-Paul (*with* Fiorini, Samuel) The approval-voting polytope: combinatorial interpretation of the facets. (English and French summaries) **2004h:91040**
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Reading, Nathan Non-negative cd-coefficients of Gorenstein* posets. (English summary) **2004i:06005**
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Thomas, Hugh New combinatorial descriptions of the triangulations of cyclic polytopes and the second higher Stasheff-Tamari posets. (English summary) **2004g:06002**
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52B10 Three-dimensional polytopes

Bérczi, Szaniszló From the periodic system of Platonic and Archimedean solids and tessellations to the 4D regular polyhedra and tessellations (with extension to some 5D polytopes). (English summary)
— *see also* **Kabai, Sándor**
Glass, Christopher The pythagopod.
Hafner, Izidor Golden rhombic polyhedra.
Inchbald, Guy Towards stellating the icosahedron and faceting the dodecahedron: new findings on stellation, faceting and untidy polyhedra. (English summary)
Kabai, Sándor (*with* Bérczi, Szaniszló) Crystallography of a space station. I. How to build stellated rhombic triacontahedral structures from golden rhombohedra by folding and docking. (English summary)
Klitzing, Richard Convex segmentochora. (English summary) **2004g:52011**
Makeev, V. V. On the subdivision of a continuously distributed mass. (Russian. English and Russian summaries) **2004j:52011**
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Pook, Les ★ Flexagons inside out. **2004k:52015**
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Makeev, V. V. On some geometric properties of three-dimensional convex bodies. (Russian. Russian summary) **2004c:52001**
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52B11 n-dimensional polytopes

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Kaibel, Volker (*with* Schwartz, Alexander) On the complexity of polytope isomorphism problems. (English summary) **2004e:05125**
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Pérez-Garcia, David (*with* Villanueva Diez, Ignacio) Where do homogeneous polynomials on l_1^n attain their norm? (English summary) **2004m:46110**
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Souam, Rabah The Schläfli formula for polyhedra and piecewise smooth hypersurfaces. (English summary) **2004m:53130**
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Villanueva Diez, Ignacio *see* **Pérez-Garcia, David**, **2004m:46110**

52B12 Special polytopes (linear programming, centrally symmetric, etc.)

Arnstein, Bennett *see* **Gurkewitz, Rona**, **2004b:52021**
Beck, Matthias (*with* Pixton, Dennis) The Ehrhart polynomial of the Birkhoff polytope. (English summary) **2004g:52015**
Blind, Gerd (*with* Blind, Roswitha) On a class of equifacetted polytopes. (English summary) **2004m:52025**
Blind, Roswitha *see* **Blind, Gerd**, **2004m:52025**
Csikós, Balázs Edge-antipodal convex polytopes—a proof of Talata's conjecture. (English summary) **2004m:52026**
Fiorini, Samuel (*with* Fishburn, Peter C.) Facets of linear signed order polytopes. (English summary) **2004k:52018**
Fishburn, Peter C. *see* **Fiorini, Samuel**, **2004k:52018**
Gurkewitz, Rona (*with* Arnstein, Bennett) ★ Multimodular origami polyhedra. **2004b:52021**
Holländer, Klaus Vom Würfel zur Bienenzelle. (English and German summaries) [From the cube to the bee-cell] (*see* **2004k:00020**)
Pixton, Dennis *see* **Beck, Matthias**, **2004g:52015**
Simion, Rodica A type-B associahedron. (English summary) **2004h:52013**

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Aráoz, Julián (*with* Evans, Lisa; Gomory, Ralph E.; Johnson, Ellis L.) Cyclic groups and knapsack facets. (English summary) **2004e:90098**
Coppersmith, Don (*with* Lee, Jon[2]) Indivisibility and divisibility polytopes. (English summary) **2004c:90106**
Deza, Antoine (*with* Fukuda, Komei; Pasechnik, Dmitrii V.; Sato, Masanori) On the skeleton of the metric polytope. (English summary) **2004m:90121**
Evans, Lisa *see* **Gomory, Ralph E. et al.**, **2004e:90096** *and* **Aráoz, Julián et al.**, **2004e:90098**
Fiorini, Samuel (*with* Fishburn, Peter C.) Extendability of cyclic orders. (English summary) **2004i:06003**
Fishburn, Peter C. *see* **Fiorini, Samuel**, **2004i:06003**
Fomin, Sergey (*with* Zelevinsky, Andrei) Y-systems and generalized associahedra. **2004m:17010**
— (*with* Zelevinsky, Andrei) Cluster algebras. II. Finite type classification. **2004m:17011**
Forbes, J. Fraser *see* **Kozeratskaya, L. N. et al.**, **2004k:90113**
Fukuda, Komei *see* **Deza, Antoine et al.**, **2004m:90121**
Goebel, R. G. *see* **Kozeratskaya, L. N. et al.**, **2004k:90113**
Gomory, Ralph E. (*with* Johnson, Ellis L.; Evans, Lisa) Corner polyhedra and their connection with cutting planes. (English summary) **2004e:90096**
— (*with* Johnson, Ellis L.) T-space and cutting planes. (English summary) **2004e:90097**
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Johnson, Ellis L. *see* **Gomory, Ralph E. et al.**, **2004e:90096**; **2004e:90097** *and* **Aráoz, Julián et al.**, **2004e:90098**
Kozeratskaya, L. N. (*with* Forbes, J. Fraser; Goebel, R. G.; Kresta, J. V.) Perturbed cones for analysis of uncertain multi-criteria optimization problems. (English summary) **2004k:90113**
Kresta, J. V. *see* **Kozeratskaya, L. N. et al.**, **2004k:90113**
Lee, Jon[2] *see* **Coppersmith, Don**, **2004c:90106**
Makeev, V. V. On the subdivision of a continuously distributed mass. (Russian. English and Russian summaries) **2004j:52011**
Martini, Horst (*with* Wenzel, Walter) Simplices with congruent k-faces. (English summary) **2004h:52014**
— (*with* Swanepoel, Konrad J.) Non-planar simplices are not reduced. (English summary) **2004m:52007**
Müller, Irene Corner cuts and their polytopes. (English summary) **2004j:52012**
Pasechnik, Dmitrii V. *see* **Deza, Antoine et al.**, **2004m:90121**
Sato, Masanori *see* **Deza, Antoine et al.**, **2004m:90121**
Swanepoel, Konrad J. *see* **Martini, Horst**, **2004m:52007**
Thomas, Hugh New combinatorial descriptions of the triangulations of cyclic polytopes and the second higher Stasheff-Tamari posets. (English summary) **2004g:06002**
Wenzel, Walter *see* **Martini, Horst**, **2004h:52014**
Zelevinsky, Andrei *see* **Fomin, Sergey**, **2004m:17010** *and* **2004m:17011**

52B15 Symmetry properties of polytopes

Ábrego Lerma, Bernardo Manuel (*with* Fernández-Merchant, Silvia) The unit distance problem for centrally symmetric convex polygons. (English summary) **2004i:52009**
Fernández-Merchant, Silvia *see* **Ábrego Lerma, Bernardo Manuel**, **2004i:52009**
Gévay, Gábor A new class of non-Wythoffian perfect 4-polytopes. (English summary) **2004k:52019**
— Construction of non-Wythoffian perfect 4-polytopes. (English summary) **2004m:52027**
— (*with* Miyazaki, Koji) Some examples of semi-nodal perfect 4-polytopes. (English summary) **2004j:52013**
Martini, Horst (*with* Wenzel, Walter) Simplices with congruent k-faces. (English summary) **2004h:52014**
McCarthy, Nicholas (*with* Ogilvie, David; Zobin, Nahum; Zobin, Veronica) Convex geometry of Coxeter-invariant polyhedra. (English summary) **2004e:52014**
McMullen, Peter (*with* Schulte, Egon) ★ Abstract regular polytopes. **2004a:52020**
Miyazaki, Koji *see* **Gévay, Gábor**, **2004j:52013**
Ogilvie, David *see* **McCarthy, Nicholas et al.**, **2004e:52014**
Schulte, Egon *see* **McMullen, Peter**, **2004a:52020**
Séquin, Carlo H. Symmetrical projections of the high-dimensional regular polytopes. (English summary)
Stepenshchikov, Dmitry G. *see* **Voĭtekhovskiĭ, Yu. L.**, **2004c:52016**
Szilassi, Lajos On three classes of regular toroids.
Voĭtekhovskiĭ, Yu. L. (*with* Stepenshchikov, Dmitry G.) On the symmetry of 11-hedra. (English summary) **2004c:52016**
Wenzel, Walter *see* **Martini, Horst**, **2004h:52014**
Werbeck, Stephan Multiple unit constructions of face-connected regular dodecahedra: a comparative study of simple and complex forms. (English summary)
Zobin, Nahum *see* **McCarthy, Nicholas et al.**, **2004e:52014**
Zobin, Veronica *see* **McCarthy, Nicholas et al.**, **2004e:52014**

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— *see also* **Kabai, Sándor**
Danzer, L. Inflation species of planar tilings which are not of locally finite complexity. (English summary) **2004c:52033**
Felikson, A. A. Coxeter decomposition of hyperbolic simplexes. (Russian. Russian summary) **2004e:52013**
Gévay, Gábor (*with* Miyazaki, Koji) Occurrence of crystal forms in the central projections of 4-dimensional polytopes. (English summary) **2004g:52013**
Hafner, Izidor Golden rhombic polyhedra.
Hart, George W. A color-matching dissection of the rhombic enneacontahedron. (English summary)
Inchbald, Guy Towards stellating the icosahedron and faceting the dodecahedron: new findings on stellation, faceting and untidy polyhedra. (English summary)
Jorge, Helena A. Combinatorics of polytopes with a group of linear symmetries of prime power order. (English summary) **2004k:52013**
Kabai, Sándor (*with* Bérczi, Szaniszló) Crystallography of a space station. I. How to build stellated rhombic triacontahedral structures from golden rhombohedra by folding and docking. (English summary)
Klitzing, Richard Convex segmentochora. (English summary) **2004g:52011**
Messer, Peter W. Stellations of the rhombic triacontahedron and beyond. (English summary)
Miyazaki, Koji *see* **Gévay, Gábor**, **2004g:52013**
Möller, Marco Über regelmäßige Polytope in n Dimensionen. [On regular polytopes in n dimensions] **2004b:52019**
Müller, Irene Corner cuts and their polytopes. (English summary) **2004j:52012**
Towle, Russell Rhombic spirallohedra.
Webb, Robert Stella: polyhedron navigator. (English summary)

52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [see also 06A11, 13F20, 13Hxx]

Kantor, Jean-Michel (*with* Sarkaria, Karanbir S.) On primitive subdivisions of an elementary tetrahedron. (English summary) **2004i:52010**
Kreuzer, Maximilian (*with* Skarke, Harald) PALP: a package for analysing lattice polytopes with applications to toric geometry. (English summary) **2004j:52014**
Pak, Igor On sampling integer points in polyhedra. (English summary) **2004m:52028**
Pikhurko, Oleg Lattice points in lattice polytopes. (English summary) **2004f:52009**
Santos, Francisco (*with* Sturmfels, Bernd) Higher Lawrence configurations. (English summary) **2004f:52010**
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Stojaković, Miloš Limit shape of optimal convex lattice polygons in the sense of different metrics. (English summary) **2004g:52016**
Sturmfels, Bernd *see* **Santos, Francisco, 2004f:52010**

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Barykinskiĭ, R. G. A relative Ryshkov perfect polyhedron as a generatrix of a W-tiling. (Russian. Russian summary) **2004g:11054**
Beck, Matthias (*with* Cohen, Moshe; Cuomo, Jessica; Gribelyuk, Paul) The number of "magic" squares, cubes, and hypercubes. **2004k:05009**
Bruns, Winfried (*with* Gubeladze, Joseph) Polytopal linear algebra. (English summary) **2004b:13007**
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52B22 Shellability

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Weiss, Gunter[1] *see* **Martini, Horst et al., (2004k:00020)**
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Willsky, Alan S. *see* **Yezzi, Anthony, Jr. et al.**
Wismath, Stephen K. *see* **Jackson, LillAnne, 2004b:68166** *and* **Everett, Hazel**
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Conference:
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Errata:
"Efficient algorithm for transversal of disjoint convex polygons" Erratum to: "Efficient algorithm for transversal of disjoint convex polygons" [Inform. Process. Lett. **83** (2002) no. 3, 141–144; MR 2003b:68193] by F. Y. L. Chin and F. L. Wang. **2004d:68170a**
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52B60 Isoperimetric problems for polytopes

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Takeuchi, Hiroshi[2] The spectrum of the p-Laplacian and p-harmonic morphisms on graphs. (English summary) **2004g:31010**

52B70 Polyhedral manifolds

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Kawarabayashi, Ken-ichi (*with* Nakamoto, Atsuhiro; Oda, Yoshiaki; Watanabe, Mamoru) Geometric transformations in plane triangulations. (English summary) (*see* **2004j:52001**)
Kimmerle, Wolfgang (*with* Kouzoudi, E.) Doubly transitive automorphism groups of combinatorial surfaces. (English summary) **2004a:52023**
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Nilakantan, Nandini Nonexistence of a weakly neighbourly polyhedral map of type $\{6, 6\}$. (English summary) **2004j:52016**
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Aleksandrov, V. A. Flexible polyhedra in Minkowski 3-space. (English summary) **2004g:52035**
Attali, Dominique *see* **Hétroy, Franck, 2004b:68165**
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— (*with* Negami, Seiya) Note on diagonal flips and chromatic numbers of quadrangulations on closed surfaces. (English summary) (*see* **2004j:52001**)
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Rubinstein, J. Hyam Polyhedral geometry.
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Makeev, V. V. On some geometric properties of convex bodies. II. (Russian. Russian summary) **2004k:52021**
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Hernando, Carmen (*with* Houle, Michael E.; Hurtado, Ferran) On local transformation of polygons with visibility properties. (English summary) **2004c:68145**
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Hurtado, Ferran *see* **Hernando, Carmen et al., 2004c:68145**
Itenberg, Ilia (*with* Shustin, Evgenii) Viro theorem and topology of real and complex combinatorial hypersurfaces. (English summary) **2004c:14115**
Ryshkov, Sergeĭ Sergeevich On the theory of the cone of positivity and the theory of the perfect polyhedra $\Pi(n)$ and $\mu_n(m)$. (Russian. Russian summary) **2004m:11054**
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52Cxx Discrete geometry

52C05 Lattices and convex bodies in 2 dimensions [see also 11H06, 11H31, 11P21]

Jackson, Steve (*with* Mauldin, R. Daniel) On a lattice problem of H. Steinhaus. **2004b:52026**
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Martin, Gregory G. The limiting curve of Jarník's polygons. (English summary) **2004h:11059**
Nagy, Benedek Metrics based on neighbourhood sequences in triangular grids. (English summary) **2004f:68173**
Žunić, Joviša Limit shape of Jarník's polygonal curve is a circle. **2004a:11056**

52C07 Lattices and convex bodies in n dimensions [see also 11H06, 11H31, 11P21]

Baake, Michael Diffraction of weighted lattice subsets. (English summary) **2004i:52014**
Bezdek, Károly (*with* Blokhuis, Aart) The Radon number of the three-dimensional integer lattice. (English summary) **2004g:52023**
Blokhuis, Aart *see* **Bezdek, Károly, 2004g:52023**
Bruns, Winfried (*with* Gubeladze, Joseph) Unimodular covers of multiples of polytopes. (English summary) **2004i:52015**
Fischer, Werner *see* **Koch, Elke, 2004j:52017**
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Koch, Elke (*with* Fischer, Werner) The cubic limiting complexes of the tetragonal lattice complexes. (English summary) **2004j:52017**
Lasserre, Jean Bernard (*with* Zeron, Eduardo S.) On counting integral points in a convex rational polytope. (English summary) **2004j:52018**
Nagy, Benedek Distance functions based on neighbourhood sequences. (English summary) **2004h:52019**
Olszewska, Daria A complete census of convex lattice polygons with one interior lattice point. (English summary)
Végh, A. Investigation of the $\langle 1, q\rangle$ point systems. (English summary) **2004b:52027**
Zeron, Eduardo S. *see* **Lasserre, Jean Bernard, 2004j:52018**

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Cohn, Henry New upper bounds on sphere packings. II. (English summary) **2004b:52032**
Hans-Gill, R. J. The billiard ball motion problem. I. A Markoff type chain for the octahedron in $\mathbf{R}^3$. **2004j:11068**
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Xu, Zhi-qiang *see* **Wang, Ren Hong, 2004i:11122**

52C10 Erdős problems and related topics of discrete geometry [see also 11Hxx]

Ahlswede, Rudolf (*with* Aïdinyan, A. K.; Khachatrian, Levon H.) Forbidden $(0, 1)$-vectors in hyperplanes of $\mathbb{R}^n$: the restricted case. (English summary) **2004g:52024**
— (*with* Khachatrian, Levon H.) Cone dependence—a basic combinatorial concept. (English summary) **2004f:52015**
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Ding, Ren *see* **Xu, Chang Qing, 2004b:52029** *and* **2004m:52041**
Elekes, György On some combinatorial problems. I. (Hungarian. English summary) **2004e:52019**
— On some combinatorial problems. II. Bounds on incidences. (Hungarian. English summary) **2004m:52038**
— On the number of distinct radii of circles determined by triplets and on parameters of other curves. (English summary) **2004g:52026**
Hosono, Kiyoshi (*with* Rappaport, David; Urabe, Masatsugu) On convex decompositions of points. (English summary) **2004m:52039**
Hurtado, Ferran *see* **Devillers, Olivier et al., 2004g:52025**
Károlyi, Gyula (*with* Valtr, Pavel) Point configurations in d-space without large subsets in convex position. (English summary) **2004g:52027**
— *see also* **Devillers, Olivier et al., 2004g:52025** *and* **Bárány, Imre, (2004j:52001)**
Khachatrian, Levon H. *see* **Ahlswede, Rudolf et al., 2004f:52015** *and* **2004g:52024**
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Pop, Vasile Maximal sets on a hypersphere. (English summary) **2004d:52018**
Pór, Attila (*with* Valtr, Pavel) The partitioned version of the Erdős-Szekeres theorem. (English summary) **2004a:52027**
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Rappaport, David *see* **Hosono, Kiyoshi et al., 2004m:52039**
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Solymosi, József Note on integral distances. (English summary) **2004g:52029**
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Valtr, Pavel A sufficient condition for the existence of large empty convex polygons. (English summary) **2004b:52028**
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Xu, Chang Qing (*with* Ding, Ren) On the empty convex partition of a finite set in the plane. (English summary) **2004b:52029**
— (*with* Ding, Ren) The number of isosceles right triangles determined by n points in convex position in the plane. (English summary) **2004m:52041**
Zamfirescu, Tudor Qualitative infinite version of Erdős problem about empty polygons. **2004m:52042**

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Elekes, György SUMS versus PRODUCTS in number theory, algebra and Erdős geometry. (English summary) **2004e:11019**
Kára, Jan *see* **Černý, Jakub et al., 2004j:52022**
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Tardos, Gábor On distinct sums and distinct distances. (English summary) **2004j:11025**

52C15 Packing and covering in 2 dimensions [see also 05B40, 11H31]

Bern, Marshall (*with* Demaine, Erik D.; Eppstein, David; Hayes, Barry) A disk-packing algorithm for an origami magic trick. **2004b:52030**
Bezdek, András Covering an annulus by strips. (English summary) **2004g:52030**
Böröczky, Károly (*with* Szabó, László[2]) Minkowski arrangements of circles in the plane. (English summary) **2004a:52029**

Böröczky, Károly, Jr. Finite packing and covering by congruent convex domains. (English summary) **2004g:52031**
Demaine, Erik D. *see* **Bern, Marshall et al., 2004b:52030**
Ding, Ren *see* **Xu, Chang Qing, 2004j:52019** *and* **Yuan, Li Ping**
Eppstein, David *see* **Bern, Marshall et al., 2004b:52030**
Florian, August Some recent results in discrete geometry. (English summary) **2004a:52030**
— (*with* Heppes, Aladár) On the non-solidity of some packings and coverings with circles. (English summary) **2004k:52022**
Fodor, Ferenc The densest packing of 13 congruent circles in a circle. (English summary) **2004i:52016**
Füredi, Zoltán Covering a triangle with homothetic copies. (English summary) **2004m:52043**
Hayes, Barry *see* **Bern, Marshall et al., 2004b:52030**
Heppes, Aladár The thinnest covering of the elliptic plane by four congruent circles. (Hungarian. English summary)
— Expandability radius versus density of a lattice packing. (English summary) **2004c:52026**
— Covering the plane with fat ellipses without non-crossing assumption. (English summary) **2004b:52031**
— Some densest two-size disc packings in the plane. (English summary) **2004h:52020**
— *see also* **Florian, August, 2004k:52022**
Januszewski, Janusz Covering the unit square by squares. (English summary) **2004a:52031**
— (*with* Lassak, Marek) On-line 2-adic covering of the unit square by boxes. (English summary) **2004k:52023**
— Translative packing two squares in the unit square. (English summary) **2004g:52032**
— Packing clones in triangles. **2004h:52021**
— Packing similar triangles into a triangle. (English summary) **2004d:52019**
Kim, Seon-Hong Planar packings and mappings related to certain minmax problems. (English summary) **2004e:52020**
Koch, Elke *see* **Sowa, H.**
Kojima, Sadayoshi (*with* Mizushima, Shigeru; Tan, Ser Peow) Circle packings on surfaces with projective structures. (English summary) **2004k:52024**
Kumar, V. S. Anil (*with* Ramesh, H.) Covering rectilinear polygons with axis-parallel rectangles. (English summary) **2004m:52044**
Lángi, Zsolt (*with* Lassak, Marek) Relative distance and packing a body by homothetical copies. **2004f:52016**
Lassak, Marek *see* **Lángi, Zsolt, 2004f:52016** *and* **Januszewski, Janusz, 2004k:52023**
Marshall, Timothy H. (*with* Martin, Gaven J.) Packing strips in the hyperbolic plane. (English summary) **2004a:52032**
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Norwood, Frederick (*with* Poole, George) An improved upper bound for Leo Moser's worm problem. (English summary) **2004a:52033**
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Ramesh, H. *see* **Kumar, V. S. Anil, 2004m:52044**
Sowa, H. (*with* Koch, Elke) Hexagonal and trigonal sphere packings. II. Bivariant lattice complexes. (English summary)
Sugihara, Kokichi Laguerre Voronoi diagram on the sphere. (English summary) **2004a:52034**
Szabó, László² *see* **Böröczky, Károly, 2004a:52029**
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Wästlund, Johan Perfect packings of squares using the stack-pack strategy. (English summary) **2004a:52035**
Wills, Jörg M. On a packing inequality by Graham, Witsenhausen and Zassenhaus. (English summary) **2004m:52045**
Xu, Chang Qing (*with* Ding, Ren) More on covering squares with squares. (English and Chinese summaries) [More on covering squares with squares] **2004j:52019**
Yuan, Li Ping (*with* Ding, Ren) Point transversals to translates of a trapezoid. (English summary)

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Edelsbrunner, Herbert Surface reconstruction by wrapping finite sets in space. (English summary) **2004m:65017**
Frederickson, Greg N. Geometric dissections that swing and twist. (English summary) (*see* **2004j:52001**)
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Grünbaum, Branko Families of point-touching squares. **2004a:05035**
Hans-Gill, R. J. The billiard ball motion problem. I. A Markoff type chain for the octahedron in $\mathbf{R}^3$. **2004j:11068**
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Lángi, Zsolt On the relative lengths of sides of convex polygons. (English summary) **2004g:52003**
Maehara, Hiroshi On a condition for the union of spherical caps to be connected. (English summary) **2004a:05085**
Wills, Jörg M. Kepler, Kugeln, Cluster, Katastrophen. (German summary) [Kepler, spheres, clusters, catastrophes] **2004c:01026**

52C17 Packing and covering in n dimensions [see also 05B40, 11H31]

Alt, Helmut (*with* Hurtado, Ferran) Packing convex polygons into rectangular boxes. (English summary) (*see* **2004j:52001**)
Bezdek, Károly (*with* Braß, Peter) On k^+-neighbour packings and one-sided Hadwiger configurations. (English summary) **2004i:52017**
Bowen, Lewis On the existence of completely saturated packings and completely reduced coverings. (English summary) **2004i:52018**
Braß, Peter *see* **Bezdek, Károly, 2004i:52017**
(Chern, Shiing-Shen) *see* **Hsiang, Wu-Yi, 2004g:52033**
Cohn, Henry New upper bounds on sphere packings. II. (English summary) **2004b:52032**
Conway, John Horton (*with* Goodman-Strauss, Chaim; Sloane, Neil J. A.) Recent progress in sphere packing. (English summary) **2004c:52027**
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52C23 Quasicrystals, aperiodic tilings

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52C25 Rigidity and flexibility of structures [see also 70B15]

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52C30 Planar arrangements of lines and pseudolines

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52C35 Arrangements of points, flats, hyperplanes [see also 32S22]

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52C40 Oriented matroids

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52C45 Combinatorial complexity of geometric structures [see also 68U05]

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52C99 None of the above, but in this section

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53–XX Differential geometry {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.}

53–01 Instructional exposition (textbooks, tutorial papers, etc.)

Hertrich-Jeromin, Udo ★ Introduction to Möbius differential geometry. **2004g:53001**
Ivey, Thomas A. (*with* Landsberg, Joseph M.) ★ Cartan for beginners: differential geometry via moving frames and exterior differential systems. **2004g:53002**
Kühnel, Wolfgang ★ Differentialgeometrie. (German) [Differential geometry] **2004c:53001**
Landsberg, Joseph M. *see* **Ivey, Thomas A., 2004g:53002**
Zimmermann, Bruno The shape of space: topology and geometry. (Italian) (*see* **2004e:00012**)

Items with secondary classifications in 53–01

Agricola, Ilka (*with* Friedrich, Thomas) ★ Global analysis. **2004f:58001**
Cloud, Michael J. *see* **Lebedev, Leonid P., 2004b:53026**
Friedrich, Thomas *see* **Agricola, Ilka, 2004f:58001**
Gray, Alfred ★ Tubes. **2004j:53001**
Lam, Kai S. ★ Topics in contemporary mathematical physics. **2004i:58001**
Lebedev, Leonid P. (*with* Cloud, Michael J.) ★ Tensor analysis. **2004b:53026**
(Miquel, Vicente) *see* **Gray, Alfred, 2004j:53001**
Morita, Shigeyuki *see* **Ueno, Kenji et al., 2004h:57001**
(Nestke, Andreas) *see* **Agricola, Ilka, 2004f:58001**
Shiga, Koji *see* **Ueno, Kenji et al., 2004h:57001**
(Tyler, Eiko) *see* **Ueno, Kenji et al., 2004h:57001**
Ueno, Kenji (*with* Shiga, Koji; Morita, Shigeyuki) ★ A mathematical gift. I. **2004h:57001**
(Vorovich, I. I.) *see* **Lebedev, Leonid P., 2004b:53026**

Items listed otherwise than by author

Progress in Mathematics *see* **Gray, Alfred, 2004j:53001**

53–02 Research exposition (monographs, survey articles)

Berger, Marcel ★ A panoramic view of Riemannian geometry. **2004h:53001**
Gray, Alfred ★ Tubes. **2004j:53001**
(Miquel, Vicente) *see* **Gray, Alfred, 2004j:53001**
Yau, Shing Tung Geometry motivated by physics. (*see* **2004j:00037**)

Items listed otherwise than by author

Progress in Mathematics *see* **Gray, Alfred, 2004j:53001**

Items with secondary classifications in 53–02

Ivan′shin, P. N. (*with* Malakhal′tsev, M. A.; Sosov, E. N.) Development of geometric research at the N. G. Chebotarev Research Institute of Mathematics and Mechanics. (Russian. Russian summary) **2004f:01042**
Malakhal′tsev, M. A. *see* **Ivan′shin, P. N. et al., 2004f:01042**
Sosov, E. N. *see* **Ivan′shin, P. N. et al., 2004f:01042**
Xin, Yuanlong ★ Minimal submanifolds and related topics. **2004m:53112**

53–03 Historical (must also be assigned at least one classification number from Section 01)

Borel, Armand Élie Cartan, Hermann Weyl et les connexions projectives. [Élie Cartan, Hermann Weyl and projective connections] **2004a:53001**
(Cartan, Élie) *see* **Borel, Armand, 2004a:53001** *and* **Czajko, Jakub, 2004j:53002**
Czajko, Jakub Elie Cartan and pan-geometry of multispatial hyperspace. (English summary) **2004j:53002**
(Levi-Civita, Tullio) *see* **Tazzioli, Rossana, 2004h:53002**
Tazzioli, Rossana Gheorghe Vranceanu's life and work in the correspondence Vranceanu–Levi Civita. **2004h:53002**
(Vranceanu, Gheorghe) *see* **Tazzioli, Rossana, 2004h:53002**
(Weyl, Hermann) *see* **Borel, Armand, 2004a:53001**

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Correspondence:
Vrănceanu, Gheorghe–Levi-Civita, Tullio *see* **Tazzioli, Rossana, 2004h:53002**

Items with secondary classifications in 53–03

(Aleksandrov, Aleksandr Danilovich) *see* **Reshetnyak, Yurīĭ Grigor′evich**
Epple, Moritz From quaternions to cosmology: spaces of constant curvature, ca. 1873–1925. (English summary) **2004a:01018**
Fukaya, Kenji On Mikhail Gromov winning the Kyoto Award. (Japanese) **2004i:01021**
(Gromov, Mikhael L.) *see* **Fukaya, Kenji, 2004i:01021**
Martín, Francisco (*with* Pérez, Joaquín) Minimal surfaces foliated by circles: the examples of Riemann. (Spanish) **2004m:53016**
Pérez, Joaquín *see* **Martín, Francisco, 2004m:53016**
Reshetnyak, Yurīĭ Grigor′evich My recollections about A. D. Aleksandrov and the Leningrad Geometry Seminar. (Russian. Russian summary)
Strantzalos, Polychronis Transformation groups in Athens: a selection of remembrances and results. (*see* **2004c:00022**)

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Biography:
Aleksandrov, Aleksandr Danilovich *see* **Reshetnyak, Yurīĭ Grigor′evich**

53–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 53–04

Barr, Alan H. *see* **Meyer, Mark et al., 2004k:53004**
Desbrun, Mathieu *see* **Meyer, Mark et al., 2004k:53004**
Meyer, Mark (*with* Desbrun, Mathieu; Schröder, Peter; Barr, Alan H.) Discrete differential-geometry operators for triangulated 2-manifolds. (English summary) **2004k:53004**
Portugal, Renato *see* **Rutz, Solange F., 2004d:53091**
Rutz, Solange F. (*with* Portugal, Renato) FINSLER: a computer algebra package for Finsler geometries. (English summary) **2004d:53091**
Schröder, Peter *see* **Meyer, Mark et al., 2004k:53004**
Sinclair, Robert (*with* Tanaka, Minoru[3]) Loki: software for computing cut loci. (English summary) **2004h:53009**
Tanaka, Minoru[3] *see* **Sinclair, Robert, 2004h:53009**

53–06 Proceedings, conferences, collections, etc.

(Anastasiei, Mihai) *see* **Finsler and Lagrange geometries, 2004d:53002**
(Antonelli, Peter L.) *see* **Finsler and Lagrange geometries, 2004d:53002** *and* **Handbook: Finsler geometry. Vol. 1, 2, 2004m:53001**
(Chaki, B.) *see* **Proceedings: Symposium on Analysis, Manifolds and Mechanics, International, 2004k:53001**
(Chaki, M. C.) *see* **Proceedings: Symposium on Analysis, Manifolds and Mechanics, International, 2004k:53001**
(Das, A. G.) *see* **Proceedings: Symposium on Analysis, Manifolds and Mechanics, International, 2004k:53001**
(De, U. C.) *see* **Proceedings: Symposium on Analysis, Manifolds and Mechanics, International, 2004k:53001**
(Dimiev, Stancho) *see* **Trends in complex analysis, differential geometry and mathematical physics, 2004h:53004**
(Dragomir, Sorin) *see* **Selected topics in Cauchy-Riemann geometry, 2004j:53004**
(Duggal, Krishan L.) *see* **Recent advances in Riemannian and Lorentzian geometries, 2004j:53003**
(Kowalski, Oldřich) *see* **Differential geometry and its applications, 2004a:53002**
(Krupka, Demeter) *see* **Differential geometry and its applications, 2004a:53002**
(Majumder, Manjusha) *see* **Proceedings: Symposium on Analysis, Manifolds and Mechanics, International, 2004k:53001**
Markvorsen, Steen (*with* Min-Oo, Maung) ★ Global Riemannian geometry: curvature and topology. **2004d:53001**
(Matič, Gordana) *see* **Topology and geometry of manifolds, 2004h:53003**
(McCrory, Clint) *see* **Topology and geometry of manifolds, 2004h:53003**
Min-Oo, Maung *see* **Markvorsen, Steen, 2004d:53001**
(Sekigawa, Kouei) *see* **Trends in complex analysis, differential geometry and mathematical physics, 2004h:53004**
(Sharma, Ramesh) *see* **Recent advances in Riemannian and Lorentzian geometries, 2004j:53003**
(Shelekhov, A. M.) *see* **Webs & quasigroups, 2004h:53005**
(Slovák, Jan) *see* **Differential geometry and its applications, 2004a:53002**

Items listed otherwise than by author

Athens, GA ★ Topology and geometry of manifolds. **2004h:53003**
Baltimore, MD ★ Recent advances in Riemannian and Lorentzian geometries. **2004j:53003**
Conference:
Topology ★ Topology and geometry of manifolds. **2004h:53003**
Contemporary Mathematics ★ Recent advances in Riemannian and Lorentzian geometries. **2004j:53003**
Differential geometry and its applications ★ Differential geometry and its applications. **2004a:53002**
Finsler and Lagrange geometries ★ Finsler and Lagrange geometries. **2004d:53002**
Global Riemannian geometry: curvature and topology *see* **Markvorsen, Steen, 2004d:53001**
Handbook:
Finsler geometry. Vol. 1, 2 ★ Handbook of Finsler geometry. Vol. 1, 2. **2004m:53001**
Iaşi ★ Finsler and Lagrange geometries. **2004d:53002**
Kolkata ★ Proceedings of the International Symposium on "Analysis, Manifolds and Mechanics". **2004k:53001**
Opava ★ Differential geometry and its applications. **2004a:53002**
Proceedings of Symposia in Pure Mathematics ★ Topology and geometry of manifolds. **2004h:53003**
Proceedings:
Symposium on Analysis, Manifolds and Mechanics, International ★ Proceedings of the International Symposium on "Analysis, Manifolds and Mechanics". **2004k:53001**
Recent advances in Riemannian and Lorentzian geometries ★ Recent advances in Riemannian and Lorentzian geometries. **2004j:53003**
Selected topics in Cauchy-Riemann geometry ★ Selected topics in Cauchy-Riemann geometry. **2004j:53004**
St. Konstantin ★ Trends in complex analysis, differential geometry and mathematical physics. **2004h:53004**
Topology and geometry of manifolds ★ Topology and geometry of manifolds. **2004h:53003**
Trends in complex analysis, differential geometry and mathematical physics ★ Trends in complex analysis, differential geometry and mathematical physics. **2004h:53004**
Webs & quasigroups ★ Webs & quasigroups. **2004h:53005**
Workshop:
Complex Structures and Vector Fields ★ Trends in complex analysis, differential geometry and mathematical physics. **2004h:53004**

Items with secondary classifications in 53–06

Audin, Michèle (*with* Cannas da Silva, Ana; Lerman, Eugene) ★ Symplectic geometry of

integrable Hamiltonian systems. **2004h:53108**

Babillot, Martine (*with* Feres, Renato; Zeghib, Abdelghani) ★ Rigidité, groupe fondamental et dynamique. (French) [Rigidity, fundamental group and dynamics] **2004b:37004**

(Bland, John) *see* **Explorations in complex and Riemannian geometry, 2004g:00022**

(Breuillard, Emmanuel) *see* **Babillot, Martine et al., 2004b:37004**

(Calabi, Eugenio) *see* **Surveys in differential geometry, 2004j:00036**

Cannas da Silva, Ana *see* **Audin, Michèle et al., 2004h:53108**

Craioveanu, Mircea (*with* Papuc, Dan I.) Preface [Proceedings of the Fifth International Workshop on Differential Geometry and its Applications].

Feres, Renato *see* **Babillot, Martine et al., 2004b:37004**

(Foulon, Patrick) *see* **Babillot, Martine et al., 2004b:37004**

(Frauendiener, Jörg) *see* **Conformal structure of space-time, 2004d:83001**

(Friedrich, Helmut) *see* **Conformal structure of space-time, 2004d:83001**

(Goldman, William M.) *see* **Special Issue: Dedicated to the memory of Hannah Miriam Sandler (1960–1999)**

(Greene, Robert E.) *see* **Explorations in complex and Riemannian geometry, 2004g:00022**

(Gu, Chaohao) *see* **Differential geometry and related topics, 2004m:00012**

(Hildebrandt, Stefan) *see* **Geometric analysis and nonlinear partial differential equations, 2004d:00025**

(Hu, Hesheng) *see* **Differential geometry and related topics, 2004m:00012**

(Karcher, Hermann) *see* **Geometric analysis and nonlinear partial differential equations, 2004d:00025**

(Kim, Kang-Tae) *see* **Explorations in complex and Riemannian geometry, 2004g:00022**

(Krantz, Steven G.) *see* **Explorations in complex and Riemannian geometry, 2004g:00022**

(Ladyzhenskaya, Ol′ga Aleksandrovna) *see* **Geometric analysis and nonlinear partial differential equations, 2004d:00025**

(Lawson, H. Blaine, Jr.) *see* **Surveys in differential geometry, 2004j:00036**

Lerman, Eugene *see* **Audin, Michèle et al., 2004h:53108**

(Li, Ta Tsien) *see* **Differential geometry and related topics, 2004m:00012**

(Mason, Lionel J.) *see* **Geometry and integrability, 2004j:00007**

(Nutku, Yavuz) *see* **Geometry and integrability, 2004j:00007**

Papuc, Dan I. *see* **Craioveanu, Mircea**

(Sandler, Hanna Miriam) *see* **Special Issue: Dedicated to the memory of Hannah Miriam Sandler (1960–1999)**

(Siu, Yum-Tong) *see* **Surveys in differential geometry, 2004j:00036**

(Su, Bu Qing) *see* **Differential geometry and related topics, 2004m:00012**

(Tamássy, Lajos) *see* **Dedicated to Professor Lajos Tamássy on the occasion of his 80th birthday**

(Uhlenbeck, Karen) *see* **Surveys in differential geometry, 2004j:00036**

(Yau, Shing Tung) *see* **Surveys in differential geometry, 2004j:00036**

Zeghib, Abdelghani *see* **Babillot, Martine et al., 2004b:37004**

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Barcelona *see* **Audin, Michèle et al., 2004h:53108**

Boston, MA ★ Surveys in differential geometry. Vol. VIII. **2004j:00036**

Conformal structure of space-time ★ The conformal structure of space-time. **2004d:83001**

Contemporary Mathematics ★ Explorations in complex and Riemannian geometry. **2004g:00022**

Dedicated to Professor Lajos Tamássy on the occasion of his 80th birthday ★ {Dedicated to Professor Lajos Tamássy on the occasion of his 80th birthday}.

Differential geometry and related topics ★ Differential geometry and related topics. **2004m:00012**

Explorations in complex and Riemannian geometry ★ Explorations in complex and Riemannian geometry. **2004g:00022**

Festschrift:

- **Calabi, Eugenio** ★ Surveys in differential geometry. Vol. VIII. **2004j:00036**
- **Greene, Robert Everist** ★ Explorations in complex and Riemannian geometry. **2004g:00022**
- **Ladyzhenskaya, Ol′ga Aleksandrovna** ★ Geometric analysis and nonlinear partial differential equations. **2004d:00025**
- **Lawson, H. Blaine, Jr.** ★ Surveys in differential geometry. Vol. VIII. **2004j:00036**
- **Siu, Yum Tong** ★ Surveys in differential geometry. Vol. VIII. **2004j:00036**
- **Tamássy, Lajos** ★ {Dedicated to Professor Lajos Tamássy on the occasion of his 80th birthday}.
- **Uhlenbeck, Karen Keskulla** ★ Surveys in differential geometry. Vol. VIII. **2004j:00036**

Geometric analysis and nonlinear partial differential equations ★ Geometric analysis and nonlinear partial differential equations. **2004d:00025**

Geometry and integrability ★ Geometry and integrability. **2004j:00007**

Lecture Notes in Physics ★ The conformal structure of space-time. **2004d:83001**

Memorial Issue:

- **Sandler, Hanna Miriam** ★ Special volume dedicated to the memory of Hanna Miriam Sandler (1960–1999).

Niš ★ Nonlinear mechanics, nonlinear sciences and applications. I.

Nonlinear mechanics, nonlinear sciences and applications ★ Nonlinear mechanics, nonlinear sciences and applications. I.

Rigidité, groupe fondamental et dynamique *see* **Babillot, Martine et al., 2004b:37004**

Rigidity, fundamental group and dynamics *see* **Babillot, Martine et al., 2004b:37004**

Seminar:

- **Spectral Theory and Geometry, Vol. 21, 2002/2003** ★ Séminaire de Théorie Spectrale et Géométrie. Vol. 21. Année 2002–2003. (French) [Seminar on Spectral Theory and Geometry. Vol. 21. Year 2002–2003] **2004k:00014**

Shanghai ★ Differential geometry and related topics. **2004m:00012**

Special Issue:

- **Dedicated to the memory of Hannah Miriam Sandler (1960–1999)** ★ Special volume dedicated to the memory of Hanna Miriam Sandler (1960–1999).

Surveys in differential geometry ★ Surveys in differential geometry. Vol. VIII. **2004j:00036**

Symplectic geometry of integrable Hamiltonian systems *see* **Audin, Michèle et al., 2004h:53108**

53Axx Classical differential geometry

53A04 Curves in Euclidean space

Alencar, Hilário (*with* Santos, Walcy) ★ Geometria diferencial das curvas planas. (Portuguese) [Differential geometry of plane curves] **2004j:53005**

Aydemir, İ. *see* **Bilici, M. et al., 2004b:53001**

Bilici, M. (*with* Çalışkan, Mustafa; Aydemir, İ.) The natural lift curves and the geodesic sprays for the spherical indicatrices of the pair of evolute-involute curves. (English summary) **2004b:53001**

Çalışkan, Mustafa *see* **Bilici, M. et al., 2004b:53001**

Camcı, Çetin *see* **Kocayigit, H. et al., 2004h:53007**

Craveiro de Carvalho, Francisco J. A theorem of F. Fabricius-Bjerre on helices. (Portuguese)

Ghomi, Mohammad A smooth convex loop with vanishing projections. (English summary) **2004m:53002**

Giblin, P. J. (*with* Holtom, P. A.) Affine-distance symmetry sets. (English summary) **2004h:53006**

Hacisalihoglu, H. H. *see* **Kocayigit, H. et al., 2004h:53007**

Holtom, P. A. *see* **Giblin, P. J., 2004h:53006**

Huang, Rong-pei The generalized subaffine elastica in $\mathbf{R}^3$. (English and Chinese summaries) **2004d:53003**

Joshi, K. L. *see* **Singh, Awadhesh Kumar[2], 2004d:53004** *and* **2004d:53005**

Kocayigit, H. (*with* Yaz, N.; Camcı, Çetin; Hacisalihoglu, H. H.) On the explicit characterization of spherical curves in n-dimensional Euclidean space. (English summary) **2004h:53007**

Langevin, Rémi Differential geometry of curves and surfaces. (English summary) **2004g:53003**

Lodder, Gerald M. Curvature in the calculus curriculum.

Luo, Bing *see* **Wang, Wei Dong[1]**

Miernowski, Andrzej (*with* Mozgawa, Witold) Isoptics of open, convex curves and Crofton-type formulas. (English summary) **2004c:53002**

Mozgawa, Witold *see* **Miernowski, Andrzej, 2004c:53002**

Ou, Biao An equality for the curvature function of a simple and closed curve on the plane. (English summary) **2004j:53006**

Pan, Sheng Liang An application of the polar tangential coordinates. (Chinese. English and Chinese summaries)

Reshetnyak, Yurii Grigor′evich On the theory of irregular curves in n-dimensional Euclidean space [translated from *Proceedings of the Conference "Geometry and Applications" dedicated to the seventieth birthday of V. A. Toponogov (Russian) (Novosibirsk, 2000)*, 158–170; Ross. Akad. Nauk Sib. Otd., Inst. Mat., Novosibirsk, 2001]. (English summary)

Santos, Walcy *see* **Alencar, Hilário, 2004j:53005**

Singh, Awadhesh Kumar[2] (*with* Joshi, K. L.) On hyper Darboux lines in Sasakian spaces. (English summary) **2004d:53004**

— (*with* Joshi, K. L.) On special, union and hyperasymptotic curves of a Sasakian hypersurface. **2004d:53005**

Uribe-Vargas, Ricardo On 4-flattening theorems and the curves of Carathéodory, Barner and Segre. (English summary) **2004g:53004**

Wang, Wei Dong[1] (*with* Luo, Bing) A necessary and sufficient condition for a unified generalization of Bertrand curves and Mannheim curves. (Chinese. English and Chinese summaries)

Yaz, N. *see* **Kocayigit, H. et al., 2004h:53007**

Yilmaz, Murteza On relatively parallel vector fields in Euclidean spaces. (English summary)

Items with secondary classifications in 53A04

Abdel Baky, Rashad A. An explicit characterization of dual spherical curve. (English summary) **2004c:53012**

Andrews, Ben Classification of limiting shapes for isotropic curve flows. **2004a:53083**

Arroyo, J. (*with* Garay, Oscar J.; Mencia, J. J.) Closed generalized elastic curves in $S^2(1)$. (English summary) **2004h:58014**

Balakrishnan, Radha (*with* Murugesh, S.) Kinematics of three moving space curves associated with the nonlinear Schrödinger equation. (Russian. Russian summary) **2004d:37119**

— (*with* Dandoloff, Rossen) Classical analogues of the Schrödinger and Heisenberg pictures in quantum mechanics using the Frenet frame of a space curve: an example. (English summary)

Bektaş, Mehmet The solution of the Frenet system of differential equations for nonnull curves in the Lorentzian space.

Camcı, Çetin (*with* İlarslan, Kazım; Šućurović, Emilija) On pseudohyperbolical curves in Minkowski space-time. (English summary) **2004c:53016**

— *see also* **İlarslan, Kazım et al., 2004j:53026**

Casanova, Gaston Courbure et torsion dans les algèbres de Clifford. II. (English and French summaries) [Curvature and torsion in Clifford algebras. II] **2004a:30045**

Chen, William Curvature: Gaussian or Riemann. (English summary) **2004d:53006**

Chou, Kai-Seng (*with* Qu, Chang Zheng) Motions of curves in similarity geometries and Burgers-mKdV hierarchies. (English summary) **2004k:37156**

Cloud, Michael J. *see* **Lebedev, Leonid P., 2004b:53026**

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Encheva, Radostina P. (*with* Georgiev, Georgi Khristov) Curves on the shape sphere. (English summary) **2004k:53021**

Farouki, Rida T. (*with* Han, Chang Yong) Rational approximation schemes for rotation-minimizing frames on Pythagorean-hodograph curves. (English summary) **2004m:65025**

— (*with* Han, Chang Yong; Manni, Carla; Šestini, Alessandra) Characterization and construction of helical polynomial space curves. (English summary) **2004i:65013**

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Georgiev, Georgi Khristov *see* **Encheva, Radostina P., 2004k:53021**

Gündoğan, Halit *see* **Karakaş, B., 2004e:53013**

Gürsoy, Osman *see* **Küçük, Ahmet, 2004m:53006**

Hacisalihoglu, H. H. *see* **İlarslan, Kazım et al., 2004j:53026**
Han, Chang Yong *see* **Farouki, Rida T. et al., 2004i:65013** *and* **2004m:65025**
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— *see also* **Camcı, Çetin et al., 2004c:53016**
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Izumiya, Shyuichi (*with* Takeuchi, Nobuko) Special curves and ruled surfaces. (English summary) **2004f:53001**
Kakuhata, Hiroshi *see* **Konno, Kimiaki, (2004i:81006)**
Karakaş, B. (*with* Gündoğan, Halit) A relation among DS^2, TS^2 and non-cylindrical ruled surfaces. (English summary) **2004e:53013**
Kim, Un Kyu A new description of limaçons. (English summary) **2004j:51016**
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Konno, Kimiaki (*with* Kakuhata, Hiroshi) Stretching of vortex filament with corrections. (English summary) (*see* **2004i:81006**)
Koriyama, Akira *see* **Ozaki, Katsuhisa, 2004c:65013**
Kozhamkulov, T. A. *see* **Martina, L. et al., (2004i:81006)**
Küçük, Ahmet (*with* Gürsoy, Osman) On the invariants of Bertrand trajectory surface offsets. (English and German summaries) **2004m:53006**
Lebedev, Leonid P. (*with* Cloud, Michael J.) ★ Tensor analysis. **2004b:53026**
Manni, Carla *see* **Farouki, Rida T. et al., 2004i:65013**
Martina, L. (*with* Kozhamkulov, T. A.; Myrzakul, Kur.; Myrzakulov, R.) Integrable Heisenberg ferromagnets and soliton geometry of curves and surfaces. (English summary) (*see* **2004i:81006**)
Mencía, J. J. *see* **Arroyo, J. et al., 2004h:58014**
Murugesh, S. *see* **Balakrishnan, Radha, 2004d:37119**
Myrzakul, Kur. *see* **Martina, L. et al., (2004i:81006)**
Myrzakulov, R. *see* **Martina, L. et al., (2004i:81006)**
Ozaki, Katsuhisa (*with* Koriyama, Akira) Ray tracing by a spherical method and its applications. (Japanese. English summary) **2004c:65013**
Pichon, Eric (*with* Sapiro, Guillermo; Tannenbaum, Allen) Segmentation of diffusion tensor imagery. (English summary) **2004i:58019**
Qu, Chang Zheng *see* **Chou, Kai-Seng, 2004k:37156**
Risler, Jean-Jacques On the curvature of the real Milnor fiber. (English summary) **2004c:14111**
— Sur la courbure totale des variétés réelles. (French summary) [On the total curvature of real varieties] **2004d:14087**
Sapiro, Guillermo *see* **Pichon, Eric et al., 2004i:58019**
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Smelyakov, S. V. Construction of shortest line of restricted curvature in a non-singly-connected polygonal area. (English summary) **2004g:65015**
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Takeuchi, Nobuko *see* **Izumiya, Shyuichi, 2004f:53001**
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Vogel, Thomas On the asymptotic linking number. (English summary) **2004c:57042**
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53A05 Surfaces in Euclidean space

Abdel-All, Nassar H. (*with* Abd-Ellah, H. N.) The tangential variation on hyperruled surfaces. (English summary) **2004j:53007**
Abd-Ellah, H. N. *see* **Abdel-All, Nassar H., 2004j:53007**
Al-Zoubi, Hassan *see* **Stamatakis, Stylianos, 2004b:53008**
Aminov, Yu. A. (*with* Cieśliński, Jan L.) On the regularity of the Bäcklund transformation for pseudospherical surfaces. (English summary) **2004k:53002**
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53A07 Higher-dimensional and -codimensional surfaces in Euclidean n-space

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53A10 Minimal surfaces, surfaces with prescribed mean curvature [see also 49Q05, 49Q10, 53C42]

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53Bxx Local differential geometry

53B05 Linear and affine connections

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53Cxx Global differential geometry [see also 51H25, 58–XX; for related bundle theory, see 55Rxx, 57Rxx]

53C05 Connections, general theory

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53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [see also 32Q20]

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53C10 G-structures

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53C12 Foliations (differential geometric aspects) [see also 57R30, 57R32]

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53C15 General geometric structures on manifolds (almost complex, almost product structures, etc.)

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53C20 Global Riemannian geometry, including pinching [see also 31C12, 58B20]

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53C23 Global topological methods (à la Gromov)

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53C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)

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53C43 Differential geometric aspects of harmonic maps [see also 58E20]

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53C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)

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53D25 Geodesic flows

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"The Verlinde formulas as fixed point formulas" Correction: "The Verlinde formulas as fixed point formulas" [J. Symplectic Geom. **1** (2001), no. 1, 1–46] by A. Alekseev, E. Meinrenken and C. Woodward. **2004c:53149b**

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— Deformation quantization and the Baum-Connes conjecture. (English summary) **2004k:53148**
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— *see also* **Manchon, Dominique**, **2004f:53106**
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Hirshfeld, Allen C. Deformation quantization in quantum mechanics and quantum field theory. (English summary) **2004i:81123**
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53D99 None of the above, but in this section

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Polterovich, Leonid Slow symplectic maps, continued fractions, and related stories. **2004c:37117**

53Z05 Applications to physics

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Gajić, B. *see* **Dragović, V.**, **2004b:37133**

54–XX General topology {For the topology of manifolds of all dimensions, see 57Nxx.}

54–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Olivares, J.) *see* **Basic readings in general topology, 2004d:54001**
(Sestier, A.) *see* **Basic readings in general topology, 2004d:54001**
(Villegas Silva, Luis Miguel) *see* **Basic readings in general topology, 2004d:54001**

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Basic readings in general topology ★ Lecturas básicas en topología general. (Spanish) [Basic readings in general topology] **2004d:54001**

54–01 Instructional exposition (textbooks, tutorial papers, etc.)

Álvarez Prieto, Ángel *see* **Hinrichsen, Diederich et al.**
Fernández Muñiz, José L. *see* **Hinrichsen, Diederich et al.**
Fraguela Collar, Andrés *see* **Hinrichsen, Diederich et al.**
Hinrichsen, Diederich (*with* Fernández Muñiz, José L.; Fraguela Collar, Andrés; Álvarez Prieto, Ángel) ★ Topología general. (Spanish) [General topology]
Rubiano Ortegón, Gustavo Nevardo ★ Topología general. (Spanish) [General topology]

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Cohen, Graeme L. ★ A course in modern analysis and its applications. **2004d:46001**
(Eves, Howard W.) *see* **Fréchet, Maurice, 2004a:57001**
Fan, Ky *see* **Fréchet, Maurice, 2004a:57001**
Fréchet, Maurice (*with* Fan, Ky) ★ Invitation to combinatorial topology. **2004a:57001**

54–02 Research exposition (monographs, survey articles)

(Hušek, Miroslav) *see* **Recent progress in general topology, 2004e:54001**
(van Mill, Jan) *see* **Recent progress in general topology, 2004e:54001**
Pearl, Elliott Open problems in topology. (English summary) **2004i:54001**
Willard, Stephen ★ General topology.

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Problems:
  Continuum theory Problems. (*see* **2004d:54002**)
Recent progress in general topology ★ Recent progress in general topology. II. **2004e:54001**

54–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 54–03

Crilly, Tony (*with* Moran, Alan) Commentary on Menger's work on curve theory and topology. (*see* **2004h:01040**)
(Gruber, Peter Manfred) *see* **Menger, Karl, 2004h:01040**
(Hlawka, Edmund) *see* **Menger, Karl, 2004h:01040**
Johnson, Dale M. Commentary on Menger's work on dimension theory. (*see* **2004h:01040**)
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— *see also* **Johnson, Dale M., (2004h:01040); Crilly, Tony, (2004h:01040)** *and* **Plaumann, Peter, (2004h:01040)**
Moran, Alan *see* **Crilly, Tony, (2004h:01040)**
Plaumann, Peter (*with* Strambach, Karl) Commentary on Menger's "Untersuchungen über allgemeine Metrik". (*see* **2004h:01040**)
(Reich, Ludwig) *see* **Menger, Karl, 2004h:01040**
(Schmetterer, Leopold) *see* **Menger, Karl, 2004h:01040**
(Schweizer, Berthold) *see* **Menger, Karl, 2004h:01040**
(Sigmund, Karl) *see* **Menger, Karl, 2004h:01040**
(Sklar, Abe) *see* **Menger, Karl, 2004h:01040**
Strambach, Karl *see* **Plaumann, Peter, (2004h:01040)**

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Collected Works:
  Menger, Karl *see* **Menger, Karl, 2004h:01040**

54–06 Proceedings, conferences, collections, etc.

(Anderson, Richard D.) *see* **Essays: General topology, (2004e:54001)**
(Brown, Lawrence M.) *see* **Proceedings: Conference on Applicable General Topology**
(Brümmer, Guillaume C. L.) *see* **Proceedings: Conference on Applicable General Topology**
(Comfort, W. W.) *see* **Essays: General topology, (2004e:54001)**
(Henriksen, Melvin) *see* **Essays: General topology, (2004e:54001)**
Hocking, John G. Preface [Function spaces, proximities and quasi-uniformities—an International Conference in honour of Professor S. A. Naimpally on his 70th birthday].
(Illanes, Alejandro) *see* **Continuum theory, 2004d:54002**
(Kopperman, Ralph D.) *see* **Proceedings: Conference on Applicable General Topology**
(Lewis, Wayne) *see* **Continuum theory, 2004d:54002**
(Macías Alvarez, Sergio) *see* **Continuum theory, 2004d:54002**
(Mardešić, Sibe) *see* **Essays: General topology, (2004e:54001)**
(Nadler, Sam B., Jr.) *see* **Continuum theory, 2004d:54002**
(Nagata, Jun-iti) *see* **Essays: General topology, (2004e:54001)**
(Naimpally, Somashekhar Amrith) *see* **Hocking, John G.**
(Rudin, Mary Ellen) *see* **Essays: General topology, (2004e:54001)**
(Smirnov, Yu. M.) *see* **Essays: General topology, (2004e:54001)**
(Vietoris, L.) *see* **Essays: General topology, (2004e:54001)**

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Ankara ★ Proceedings of the International Conference on Applicable General Topology.
Austin, TX ★ Proceedings of the Spring Topology and Dynamical Systems Conference.
Continuum theory ★ Continuum theory. **2004d:54002**
Denton, TX ★ Continuum theory. **2004d:54002**
Essays:
  General topology Essays. (*see* **2004e:54001**)
Festschrift:
  Nadler, Sam B., Jr. ★ Continuum theory. **2004d:54002**
Problems and applications in general and geometric topology ★ Ippan oyobi kikagakuteki toporojī ni okero sho mondai to ōyō. [Problems and applications in general and geometric topology]
Proceedings:
  Conference on Applicable General Topology ★ Proceedings of the International Conference on Applicable General Topology.
  Conference on General Topology and its Applications ★ Proceedings of the 16th Summer Conference on General Topology and its Applications.
  Topology and Dynamical Systems Conference, Spring ★ Proceedings of the Spring Topology and Dynamical Systems Conference.
Theme: Topology ★ Theme: Topology.

Items with secondary classifications in 54–06

(Alas, O. T.) *see* **Conference: Topology and its Applications, IV Iberoamerican**
(Cho, Yeol Je) *see* **Fixed point theory and applications, 2004j:47001** *and* **2004j:47002**
(Clementino, Maria Manuel) *see* **Conference: Topology and its Applications, IV Iberoamerican**
(Dragomir, Sever Silvestru) *see* **Fixed point theory and applications, 2004j:47001**
(Hušek, Miroslav) *see* **Recent progress in general topology, 2004e:54001**
(Kang, Shin Min) *see* **Fixed point theory and applications, 2004j:47002**
(Kim, Jong Kyu) *see* **Fixed point theory and applications, 2004j:47001** *and* **2004j:47002**
(Kopperman, Ralph D.) *see* **Topology in computer science**
(van Mill, Jan) *see* **Recent progress in general topology, 2004e:54001**
(Schellekens, Michel) *see* **On formal description of computations—refined structures and new trends**
(Seda, Anthony) *see* **On formal description of computations—refined structures and new trends**
(Smyth, Michael B.) *see* **Topology in computer science**
(Spreen, Dieter) *see* **On formal description of computations—refined structures and new trends** *and* **Topology in computer science**
(Vaughan, J.) *see* **Conference: Topology and its Applications, IV Iberoamerican**

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Chinju ★ Fixed point theory and applications. Vol. 2. **2004j:47001**
— ★ Fixed point theory and applications. Vol. 4. **2004j:47002**
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  Mathematical Foundations of Computer Science and Information Technology ★ On formal description of computations—refined structures and new trends.
  Nonlinear Functional Analysis and Applications ★ Fixed point theory and applications. Vol. 2. **2004j:47001**
  — ★ Fixed point theory and applications. Vol. 4. **2004j:47002**
  Topology and its Applications, IV Iberoamerican ★ IV Iberoamerican Conference on Topology and its Applications.
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Masan ★ Fixed point theory and applications. Vol. 2. **2004j:47001**
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On formal description of computations—refined structures and new trends ★ On formal description of computations—refined structures and new trends.
Recent progress in general topology ★ Recent progress in general topology. II. **2004e:54001**
Schloß Dagstuhl ★ Topology in computer science.
Seminar:
  Topology in Computer Science: Constructivity, Asymmetry and Partiality, Digitization ★ Topology in computer science.
Special Issue:
  Qualitative spatial reasoning ★ Special issue on qualitative spatial reasoning.
Topology in computer science ★ Topology in computer science.

54Axx Generalities

54A05 Topological spaces and generalizations (closure spaces, etc.)

Ar Rashid, Md Mamun *see* **Das, Pratulananda, 2004j:54002**
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54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)

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54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)

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54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [see also 03Exx] {For ultrafilters, see 54D80.}

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54Bxx Basic constructions

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54B15 Quotient spaces, decompositions

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54B20 Hyperspaces

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54Cxx Maps and general types of spaces defined by maps

54C05 Continuous maps

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54C10 Special maps on topological spaces (open, closed, perfect, etc.)

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54C20 Extension of maps

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54C25 Embedding

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54C35 Function spaces [see also 46Exx, 58D15]

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54C40 Algebraic properties of function spaces [see also 46J10]

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54C50 Special sets defined by functions [see also 26A21]

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54C56 Shape theory [see also 55P55, 57N25]

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54C60 Set-valued maps [see also 26E25, 28B20, 47H04, 58C06]

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54Dxx Fairly general properties

54D05 Connected and locally connected spaces (general aspects)

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54D10 Lower separation axioms (T_0–T_3, etc.)

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54D25 "P-minimal" and "P-closed" spaces

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54D30 Compactness

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54D35 Extensions of spaces (compactifications, supercompactifications, completions, etc.)

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54D40 Remainders

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54D45 Local compactness, σ-compactness

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54D50 k-spaces

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54D55 Sequential spaces

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54D60 Realcompactness and realcompactification

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54D65 Separability

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54D70 Base properties

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54D80 Special constructions of spaces (spaces of ultrafilters, etc.)

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54D99 None of the above, but in this section

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Zhu, Pei Yong On inverse limits and Tychonoff products of almost expandable class. (English summary) **2004h:54009**

54Exx Spaces with richer structures

54E05 Proximity structures and generalizations

Bridges, Douglas S. (*with* Vîţă, Luminiţa Simona) Cauchy nets in the constructive theory of apartness spaces. (English summary) **2004b:54043**
— *see also* **Schuster, Peter M. et al., 2004f:54027** *and* **Vîţă, Luminiţa Simona, 2004i:54031**
Di Maio, Giuseppe (*with* Meccariello, Enrico; Naimpally, Somashekhar Amrith) Symmetric proximal hypertopology. (English summary)
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— *see also* **Bridges, Douglas S., 2004b:54043** *and* **Schuster, Peter M. et al., 2004f:54027**

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Vîţă, Luminiţa Simona *see* **Bridges, Douglas S. et al., 2004b:03107** *and* **2004j:03086**
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Zhang, Jie[3] *see* **Shi, Fu-Gui et al., 2004a:54010**
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54E15 Uniform structures and generalizations

Arenas, F. G. (*with* Sánchez-Granero, M. A.) Completeness in GF-spaces. (English summary) **2004h:54022**
Brown, Lawrence M. *see* **Özçağ, Selma, 2004j:54036**
Burdick, Bruce S. On the use of partial orders in uniform spaces. (English summary) **2004j:54035**
Chen, Dong Li The non-standard characteristics of complete uniform space. (English summary) **2004b:54044**
Freire, Nuno C. Corrections to: "On complete spaces and regular topological spaces" [Sci. Math. Jpn. **56** (2002), no. 2, 391–399]. (English summary) **2004i:54032**
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Kou, Hui (*with* Luo, Mao Kang) RW-spaces and compactness of function spaces for L-domains. (English summary) **2004c:54022**
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Nauwelaerts, Mark An alternative description of the topological universe hull of (quasi-)uniform spaces using approach theory. (English summary) **2004a:54034**
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— On uniform shapes. (English and Georgian summaries)
Banaschewski, Bernhard Uniform completion in pointfree topology.
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Bayoumi, Fatma On initial and final fuzzy uniform structures. (English summary) **2004b:54007**
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— *see also* **Schuster, Peter M. et al., 2004f:54027**
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Cascales, B. (*with* Kąkol, Jerzy; Saxon, Stephen A.) Metrizability vs. Fréchet-Urysohn property. (English summary) **2004e:54017**
Clementino, Maria Manuel (*with* Hofmann, Dirk) Topological features of lax algebras. (English summary) **2004e:18006**
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54E17 Nearness spaces

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54E18 p-spaces, M-spaces, σ-spaces, etc.

Balogh, Zoltán Tibor Covering properties via elementary submodels. (English summary) **2004b:54045**
Cao, Jin Wen The inverse limits of normal weakly $\delta\theta$-refinable spaces. (Chinese. English and Chinese summaries) **2004c:54024**

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Cao, Jin Wen The inverse limits property of σ-orthocompact spaces. (Chinese. English and Chinese summaries) **2004b:54011**
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54E20 Stratifiable spaces, cosmic spaces, etc.

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Hung, H. H. Enmeshment of structures and characterizations of generalizations of metric spaces. (English summary) **2004f:54028**
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Junnila, Heikki (*with* Yun, Zi Qiu) On Nagata spaces. (English summary) **2004f:54031**
Yun, Zi Qiu *see* **Junnila, Heikki, 2004f:54031**
Zenor, Phillip L. *see* **Buck, Robert E. et al., 2004b:54030**

54E25 Semimetric spaces

Khrennikov, A. N. (*with* Lemin, A. Yu.) On a notion of quasi-metric space (Manhattan project). **2004b:54047**
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Roe, John ★ Lectures on coarse geometry. **2004g:53050**
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54E30 Moore spaces

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Glyn, Aneirin *see* **Gartside, P. M. et al., 2004j:54034**
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54E35 Metric spaces, metrizability

Alegre Gil, Carmen (*with* Romaguera, Salvador) On paratopological vector spaces. (English summary) **2004i:54034**
Almira, Jose María (*with* López-Moreno, Antonio Jesús; Del Toro, Naira) Metrics with good corona properties. (English summary) **2004c:54025**
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— *see also* **Good, Chris et al., 2004h:54024**
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54E45 Compact (locally compact) metric spaces

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54E52 Baire category, Baire spaces

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54E70 Probabilistic metric spaces

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54F50 Spaces of dimension ≤ 1; curves, dendrites [see also 26A03]

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Bretto, Alain (*with* Faisant, Alain) Topologies on bipartite graphs. (English summary) **2004c:54031**
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— (*with* Krupski, Paweł) Dendrites and light mappings. (English summary) **2004k:54045**
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Martínez-de-la-Vega, Verónica The RNT property on compactifications of the ray. (English summary) **2004g:54039**
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— (*with* Puga-Espinosa, Isabel; Wilson, Richard Gordon) Dendroids and preorders. (English summary) **2004e:54028**
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54F55 Unicoherence, multicoherence

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— (*with* Charatonik, Włodzimierz J.; Prajs, Janusz R.) Kernels of hereditarily unicoherent continua and absolute retracts. (English summary) **2004b:54053**
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— Mapping chainable continua onto dendroids. (English summary) **2004m:54048**
Prajs, Janusz R. *see* **Charatonik, Janusz J. et al., 2004b:54053**
Puga-Espinosa, Isabel *see* **Charatonik, Janusz J., 2004i:54043** *and* **2004j:54042**

54F65 Topological characterizations of particular spaces

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Echi, Othman Topological characterizations of some subspaces of a spectral space. (English summary) **2004f:54034**
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54Gxx Peculiar spaces

54G05 Extremally disconnected spaces, F-spaces, etc.

Bella, Angelo (*with* Błaszczyk, A.; Kucharski, Andrzej Henryk) Extension of Vladimirov's lemma. (English summary) **2004h:54034**
Błaszczyk, A. *see* **Bella, Angelo et al., 2004h:54034**
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Ball, Richard N. (*with* Walters-Wayland, Joanne) C- and C^*-quotients in pointfree topology. (English summary) **2004a:06007**
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Hong, Sung Sa *see* **Banaschewski, Bernhard, 2004i:54016**
Kim, Chang-Il Basically disconnected spaces and projective objects. (English summary) **2004e:54010**
— Almost P-spaces. (English summary) **2004m:54024**
Konstadilaki-Savvopoulou, Ch. *see* **Cao, Jiling et al., 2004a:54001**
Przybycień, Hubert *see* **Borkowski, Marcin et al., 2004i:54035**
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Sarma, Ratna Dev (*with* Hazarika, Debajit; Sharfuddin, A.) Extremal disconnectedness in L-topological spaces. (English summary)
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54G10 P-spaces

Items with secondary classifications in 54G10
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Giuli, Eraldo On classes of T_0 spaces admitting completions. (English summary) **2004j:54031**
Kim, Chang-Il Basically disconnected spaces and projective objects. (English summary) **2004e:54010**
Pelant, Jan (*with* Tkachenko, Mikhail G.; Tkachuk, Vladimir V.; Wilson, Richard Gordon) Pseudocompact Whyburn spaces need not be Fréchet. (English summary) **2004g:54005**
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Tkachuk, Vladimir V. *see* **Pelant, Jan et al., 2004g:54005**
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Wilson, Richard Gordon *see* **Pelant, Jan et al., 2004g:54005**

54G12 Scattered spaces

Bezhanishvili, Guram (*with* Mines, Ray; Morandi, Patrick J.) Scattered, Hausdorff-reducible, and hereditarily irresolvable spaces. (English summary) **2004f:54035**
Fukaishi, Hiroo (*with* Oka, Shinpei) On scattered countable metric spaces. (English summary) **2004d:54034**
Mines, Ray *see* **Bezhanishvili, Guram et al., 2004f:54035**
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Oka, Shinpei *see* **Fukaishi, Hiroo, 2004d:54034**

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— (*with* Dodon, N. K.) Bijections onto scattered hereditarily paracompact compact spaces. (English summary) **2004e:54018**
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Hanaoka, Jun (*with* Tanaka, Hidenori) Σ-products of paracompact $\mathscr{M}$-like spaces. (English summary) **2004b:54012**
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Martínez, Juan Carlos Constructions of thin-tall Boolean spaces. (English summary) **2004k:54006**
Peng, Liang Xue About DK-like spaces and some applications. (English summary) **2004j:54030**
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54G15 Pathological spaces

Items with secondary classifications in 54G15
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Weiss, Tomasz *see* **Kysiak, Marcin, 2004j:03062**

54G20 Counterexamples

Garcia-Ferreira, S. (*with* Tomita, Artur Hideyuki) Countably compact groups and p-limits. (English summary) **2004k:54046**
Kunen, Kenneth *see* **de la Vega, Ramiro, 2004m:54053**
Tomita, Artur Hideyuki *see* **Garcia-Ferreira, S., 2004k:54046**
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Császár, Á. Separation properties of θ-modifications of topologies. (English summary) **2004k:54028**
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Gartside, P. M. (*with* Glyn, Aneirin; Mcintyre, David W.) Relative calibres. (English summary) **2004j:54034**
Glyn, Aneirin *see* **Gartside, P. M. et al., 2004j:54034**
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Gruenhage, Gary Metrizability number and perfect maps. (English summary) **2004g:54023**
Junnila, Heikki (*with* Yun, Zi Qiu) On Nagata spaces. (English summary) **2004f:54031**
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Pelant, Jan (*with* Tkachenko, Mikhail G.; Tkachuk, Vladimir V.; Wilson, Richard Gordon) Pseudocompact Whyburn spaces need not be Fréchet. (English summary) **2004g:54005**
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Tkachuk, Vladimir V. *see* **Pelant, Jan et al., 2004g:54005**
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54G99 None of the above, but in this section

Hager, Anthony W. (*with* Martínez, Jorge[2]) α-Specker spaces. (English summary) **2004h:54035**
Martínez, Jorge[2] *see* **Hager, Anthony W., 2004h:54035**

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Bouhjar, Khalid (*with* Dijkstra, Jan J.) On the structure of n-point sets. (English summary) **2004i:54046**

Dijkstra, Jan J. *see* **Bouhjar, Khalid, 2004i:54046**

54Hxx Connections with other structures, applications

Items with secondary classifications in 54Hxx

Cho, Yeol Je *see* **Zhang, Shi Sheng et al., 2004j:47143**

Kang, Shin Min *see* **Zhang, Shi Sheng et al., 2004j:47143**

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54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [see also 03E15, 26A21, 28A05]

Balcerzak, Marek (*with* Rzepecka, J.) On Marczewski-Burstin representations of algebras and ideals. (English summary) **2004j:54045**

— (*with* Kotlicka, Elżbieta) Steinhaus property for products of ideals. (English summary) **2004f:54036**

Burke, Dennis K. (*with* Pol, Roman) On non-measurability of l_∞/c_0 in its second dual. (English summary) **2004i:54048**

Čížek, Petr (*with* Fabian, Marián J.) Adequate compacta which are Gul′ko or Talagrand. (English summary) **2004i:54049**

Fabian, Marián J. *see* **Čížek, Petr, 2004i:54049**

Filipczak, Małgorzata σ-ideals, topologies and multiplication. (English and Polish summaries)

Holický, Petr (*with* Spurný, Jiří) Perfect images of absolute Souslin and absolute Borel Tychonoff spaces. (English summary) **2004c:54033**

Jordan, Francis Ideals of compact sets associated with Borel functions. (English summary) **2004b:54063**

Kotlicka, Elżbieta *see* **Balcerzak, Marek, 2004f:54036**

Kubiś, Wiesław Perfect cliques and G_δ colorings of Polish spaces. (English summary) **2004g:54043**

Milewski, Paweł (*with* Pol, Roman) On a theorem of Holický and Zelený concerning Borel maps without σ-compact fibers. (English summary) **2004e:54032**

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Rzepecka, J. *see* **Balcerzak, Marek, 2004j:54045**

Solecki, Sławomir Descriptive set theory in topology. (*see* **2004e:54001**)

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Uzcátegui A., Carlos E. On the complexity of subspaces of S_ω. (English summary) **2004a:54043**

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Ar Rashid, Md Mamun *see* **Das, Pratulananda, 2004e:54020**

Bartoszynski, Tomek (*with* Shelah, Saharon; Tsaban, Boaz) Additivity properties of topological diagonalizations. (English summary) **2004k:03094**

Burke, Dennis K. (*with* Pol, Roman) On Borel sets in function spaces with the weak topology. (English summary) **2004g:46036**

Burke, Maxim R. Borel measurability of separately continuous functions. II. (English summary) **2004i:54019**

Caldas Cueva, Miguel Locally generalized Λ_s-sets and L_{set}-continuous maps. (English summary) **2004f:54012**

— (*with* Dontchev, Julian) Λ_s-closure operator and the associated topology τ^{Λ_s}. (English summary)

Camerlo, Riccardo (*with* Darji, Udayan B.) Construction of Borel inseparable coanalytic sets. (English summary) **2004d:03099**

Cascales, B. (*with* Oncina, Luis) Compactoid filters and USCO maps. (English summary) **2004e:54011**

Chaber, J. (*with* Pol, Roman) Note on the Wijsman hyperspaces of completely metrizable spaces. (English and Italian summaries) **2004j:54013**

Choban, Mitrofan M. Spaces, mappings and compact subsets. (English summary) **2004e:28013**

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Fearnley, L. *see* **Fearnley, David L. et al., 2004a:54041** *and* **2004b:51022**

Finkel, Olivier On omega context free languages which are Borel sets of infinite rank. (English summary) **2004j:68097**

Fukutake, T. (*with* Nasef, A. A.; El-Maghrabi, A. I.) Some topological concepts via γ-generalized closed sets. (English summary)

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— (*with* Kechris, Alexander S.) On the classification of Polish metric spaces up to isometry. (English summary) **2004b:03067**

Gartside, P. M. (*with* Knight, Robin W.) Ubiquity of free subgroups. (English summary) **2004e:22002**

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Kanovei, V. G. (*with* Reeken, Michael) Some new results on the Borel irreducibility of equivalence relations. (Russian. Russian summary) **2004c:03060**

Kechris, Alexander S. *see* **Gao, Su, 2004b:03067**

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Kubiś, Wiesław (*with* Shelah, Saharon) Analytic colorings. (English summary) **2004j:03055**

Lamoreaux, J. W. *see* **Fearnley, David L. et al., 2004a:54041** *and* **2004b:51022**

Michalewski, Henryk Condensations of projective sets onto compacta. (English summary) **2004d:54015**

Mirmostafaee, A. K. Minimal mappings and fragmentability. (English summary) **2004e:46025**

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Oberlin, Daniel M. Affine dimension: measuring the vestiges of curvature. **2004a:28013**

Oncina, Luis *see* **Cascales, B., 2004e:54011**

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Pol, Roman *see* **Burke, Dennis K., 2004g:46036** *and* **Chaber, J., 2004j:54013**

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Tall, Franklin D. An irrational problem. (English summary) **2004c:54012**

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Zakrzewski, Piotr Measures on algebraic-topological structures. **2004i:43001**

Ziegler, Martin[1] Computability on regular subsets of Euclidean space. (English summary) **2004d:03135**

54H10 Topological representations of algebraic systems [see also 22–XX]

Ploščica, Miroslav Dual spaces of some congruence lattices. (English summary) **2004d:54035**

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Gutik, O. V. (*with* Pavlik, K. P.) H-closed topological semigroups and Brandt λ-extensions. (Ukrainian. English, Russian and Ukrainian summaries) **2004a:22002**

Hart, Klaas Pieter An algebraic and logical approach to continuous images. (English summary) **2004c:54005**

Pavlik, K. P. *see* **Gutik, O. V., 2004a:22002**

Ploščica, Miroslav Separation in distributive congruence lattices. (English summary) **2004h:08005**

Trnková, V. Topological representations of quasiordered sets. (English summary) **2004j:54041**

54H11 Topological groups [see also 22A05]

Arkhangel′skiĭ, A. V. Topological invariants in algebraic environment. (*see* **2004e:54001**)

Barbieri, Giuseppina (*with* Dikranjan, Dikran; Milan, Chiara; Weber, Hans[1]) Answer to Raczkowski's questions on convergent sequences of integers. (English summary) **2004e:54033**

Chandrasekhara Rao, K. *see* **Thangavelu, P.**

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Givens, Berit Nilsen Closed subsets which are not retracts in the Bohr topology. (English summary) **2004a:54044**

— (*with* Kunen, Kenneth) Chromatic numbers and Bohr topologies. (English summary) **2004c:54034**

Hindman, Neil (*with* Strauss, Dona) Recent progress in the topological theory of semigroups and the algebra of βS. (*see* **2004e:54001**)

Kunen, Kenneth *see* **Givens, Berit Nilsen, 2004c:54034**

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Thangavelu, P. (*with* Chandrasekhara Rao, K.) Applications of irresolute maps to groups and vector spaces. (English summary)

Tkachenko, Mikhail G. Topological groups: between compactness and $\aleph_0$-boundedness. (*see* **2004e:54001**)

Tomita, Artur Hideyuki Two countably compact topological groups: one of size $\aleph_\omega$ and the other of weight $\aleph_\omega$ without non-trivial convergent sequences. (English summary) **2004b:54064**

Weber, Hans[1] *see* **Barbieri, Giuseppina et al., 2004e:54033**

Items with secondary classifications in 54H11

Ahsanullah, T. M. G. (*with* Al-Thukair, Fawzi) T-neighborhood groups. (English summary) **2004m:54007**

Ajmal, Naseem *see* **Jain, Aparna**

Alegre Gil, Carmen (*with* Romaguera, Salvador) On paratopological vector spaces. (English summary) **2004i:54034**

Al-Thukair, Fawzi *see* **Ahsanullah, T. M. G., 2004m:54007**

Artico, Giuliano (*with* Marconi, Umberto; Pelant, Jan; Rotter, Luca; Tkachenko, Mikhail G.) Selections and suborderability. (English summary) **2004d:54019**

Banakh, T. O. (*with* Bokalo, Bogdan) On cardinal invariants and metrizability of topological inverse semigroups. (English summary) **2004b:54004**
— On cardinal invariants and metrizability of topological inverse Clifford semigroups. (English summary) **2004b:54003**
Bokalo, Bogdan *see* **Banakh, T. O., 2004b:54004**
Bruguera, M. Montserrat (*with* Tkachenko, Mikhail G.) Extensions of topological groups do not respect countable compactness. (English summary) **2004k:54035**
Chakrabarti, Sadasiv (*with* Gangopadhyay, Amit Kumar) On some topologies connected with density of sets in a topological group. (English summary) **2004d:28029**
Chasco Ugarte, Ma. Jesús (*with* Domínguez, X.) Topologies on the direct sum of topological abelian groups. (English summary) **2004j:22003**
Choban, Mitrofan M. (*with* Kiriyak, L.) Decomposition of some algebras with topologies and their resolvability. (English summary) **2004c:22001**
Comfort, W. W. (*with* Galindo, Jorge) Pseudocompact topological group refinements of maximal weight. (English summary) **2004b:22001**
Dikranjan, Dikran Topologically torsion elements of topological groups. (English summary) **2004m:22003**
— (*with* Morris, Sidney A.) Subgroups of products of locally compact groups. (English summary) **2004k:22004**
— A class of abelian groups defined by continuous cross sections in the Bohr topology. (English summary) **2004f:20097**
— (*with* Tkachenko, Mikhail G.) Algebraic structure of small countably compact abelian groups. (English summary) **2004i:22002**
— (*with* Zannier, Umberto M.) On a property of the adele ring of the rationals. (English summary) (*see* **2004k:16001**)
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Garcia-Ferreira, S. (*with* Tomita, Artur Hideyuki) Countably compact groups and p-limits. (English summary) **2004k:54046**
Gutik, O. V. (*with* Zelenyuk, E. G.) Improper homomorphisms of semigroups of ultrafilters. (Ukrainian. English, Russian and Ukrainian summaries) **2004b:22006**
Hassan, A. A. M. On fuzzy functions and fuzzy groups on fuzzy spaces. (English summary)
Hernández, Salvador (*with* Macario, Sergio) Dual properties in totally bounded abelian groups. (English summary) **2004b:22002**
Hjorth, Greg A dichotomy theorem for turbulence. **2004b:03069**
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— (*with* Tkachuk, Vladimir V.) Any pseudo-pG-compact group G is fine. (English summary) **2004k:22001**
Jain, Aparna (*with* Ajmal, Naseem) A new approach to the theory of fuzzy groups. (English summary)
Jardón, Daniel Weakly Eberlein compact spaces. (English summary) **2004k:54021**
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Macario, Sergio *see* **Hernández, Salvador, 2004b:22002**
Marconi, Umberto *see* **Artico, Giuliano et al., 2004d:54019**
McPhail, Carolyn E. The free abelian topological group as a subgroup of the free locally convex topological vector space. (English summary) **2004c:22002**
Morris, Sidney A. *see* **Itzkowitz, Gerald L. et al., 2004h:22001** *and* **Dikranjan, Dikran, 2004k:22004**
Nickolas, Peter (*with* Tkachenko, Mikhail G.) Local compactness in free topological groups. (English summary) **2004j:22005**
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Protasov, I. V. On the Suslin number of totally bounded left-topological groups. (Russian. English and Ukrainian summaries) **2004h:22002**
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Shakhmatov, Dmitriĭ B. Convergence in the presence of algebraic structure. (*see* **2004e:54001**)
— (*with* Tkachenko, Mikhail G.; Tkachuk, Vladimir V.; Wilson, Richard Gordon) Strengthening connected Tychonoff topologies. (English summary) **2004a:54022**
Tkachenko, Mikhail G. *see* **Shakhmatov, Dmitriĭ B. et al., 2004a:54022**; **Artico, Giuliano et al., 2004d:54019**; **Dikranjan, Dikran, 2004i:22002**; **Nickolas, Peter, 2004j:22005** *and* **Bruguera, M. Montserrat, 2004k:54035**
Tkachuk, Vladimir V. *see* **Shakhmatov, Dmitriĭ B. et al., 2004a:54022**; **Itzkowitz, Gerald L. et al., 2004h:22001** *and* **2004k:22001**
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Troallic, J. P. Equicontinuity and balanced topological groups. (English summary) **2004j:54037**
Wilson, Richard Gordon *see* **Shakhmatov, Dmitriĭ B. et al., 2004a:54022**
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Zelenyuk, E. G. Isomorphisms of semigroups of ultrafilters. (Russian. English, Russian and Ukrainian summaries) **2004b:22007**
— On left-invariant topologies on groups determined by ultrafilters. (Ukrainian. English, Russian and Ukrainian summaries) **2004d:22002**
— *see also* **Gutik, O. V., 2004b:22006**

54H12 Topological lattices, etc. [see also 06B30, 06F30]

Li, Yong Ming[1] (*with* Zhang, De Xue[1]) Injective topological molecular lattices. (Chinese. English and Chinese summaries) **2004i:54050**
Zhang, De Xue[1] *see* **Li, Yong Ming[1], 2004i:54050**

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Banakh, T. O. (*with* Bokalo, Bogdan) On cardinal invariants and metrizability of topological inverse semigroups. (English summary) **2004b:54004**
— On cardinal invariants and metrizability of topological inverse Clifford semigroups. (English summary) **2004b:54003**
Bokalo, Bogdan *see* **Banakh, T. O., 2004b:54004**
Ershov, Yurii Leonidovich The spectral theory of semitopological semilattices. (Russian. Russian summary) **2004k:22003**
Escardó, Martín Hötzel Joins in the frame of nuclei. (English summary) **2004b:06012**
Farah, Ilijas (*with* Solecki, Sławomir) Two $F_{\sigma\delta}$ ideals. (English summary) **2004a:54030**
Gehrke, Mai (*with* Jónsson, Bjarni) Bounded distributive lattice expansions. (English summary) **2004j:06008**
Gierz, G. (*with* Hofmann, Karl Heinrich; Keimel, K.; Lawson, Jimmie D.; Mislove, Michael; Scott, Dana S.) ★ Continuous lattices and domains. **2004h:06001**
Hofmann, Karl Heinrich *see* **Gierz, G. et al., 2004h:06001**
Jónsson, Bjarni *see* **Gehrke, Mai, 2004j:06008**
Keimel, K. *see* **Gierz, G. et al., 2004h:06001**
Lawson, Jimmie D. *see* **Gierz, G. et al., 2004h:06001**
Li, Yong Ming[1] *see* **Zhang, De Xue[1]**
Mislove, Michael *see* **Gierz, G. et al., 2004h:06001**
Scott, Dana S. *see* **Gierz, G. et al., 2004h:06001**
Solecki, Sławomir *see* **Farah, Ilijas, 2004a:54030**
Turinici, Mihai Nondiscrete induction principle and substraction theorems. (English summary)
Zhang, De Xue[1] (*with* Li, Yong Ming[1]) Sober topological molecular lattices. (English summary)

54H13 Topological fields, rings, etc. [see also 12Jxx] {For algebraic aspects, see 13Jxx, 16W80.}

Marcos, J. E. A completion of $\mathbb{Z}$ is a field. (English summary) **2004f:54037**

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Ahsanullah, T. M. G. (*with* Al-Thukair, Fawzi) N-topo nilpotency in fuzzy neighborhood rings. (English summary) **2004m:54006**
— (*with* Al-Thukair, Fawzi) On the weakability of fuzzy neighborhood systems on various algebraic structures. (English summary)
Alegre Gil, Carmen (*with* Romaguera, Salvador) On paratopological vector spaces. (English summary) **2004i:54034**
Al-Thukair, Fawzi *see* **Ahsanullah, T. M. G., 2004m:54006**
Arnautov, V. I. (*with* Filippov, K. M.) On prebox module topologies. (Russian. Russian summary) **2004i:16061**
Chattopadhyay, K. C. *see* **Acharyya, S. K. et al., 2004m:54034**
Choban, Mitrofan M. (*with* Kiriak, L.) Compact subsets of free algebras with topologies and equivalence of spaces. (English summary) **2004d:54005**
Filippov, K. M. *see* **Arnautov, V. I., 2004i:16061**
Gregorio, Enrico Topological tilting modules. II. (English summary) **2004b:16064**
Hindman, Neil (*with* Leader, Imre; Strauss, Dona) Separating Milliken-Taylor systems with negative entries. (English summary) **2004a:05155**
— (*with* Strauss, Dona; Zelenyuk, E. G.) Large rectangular semigroups in Stone-Čech compactifications. (English summary) **2004g:22001**
Kiriak, L. *see* **Choban, Mitrofan M., 2004d:54005**
Leader, Imre *see* **Hindman, Neil et al., 2004a:05155**
Ray, G. G. *see* **Acharyya, S. K. et al., 2004m:54034**
Romaguera, Salvador *see* **Alegre Gil, Carmen, 2004i:54034**
Shell, Niel Independence. (English summary) **2004k:54003**
Strauss, Dona *see* **Hindman, Neil et al., 2004a:05155** *and* **2004g:22001**
Zelenyuk, E. G. *see* **Hindman, Neil et al., 2004g:22001**

54H15 Transformation groups and semigroups [see also 20M20, 22–XX, 57Sxx]

Baladze, V. (*with* Dzadzamia, M.) On retracts of compact transformation groups. (English and Georgian summaries)
Bergelson, V. (*with* Leibman, A.) Topological multiple recurrence for polynomial configurations in nilpotent groups. (English summary) **2004d:54036**
Dzadzamia, M. *see* **Baladze, V.**
Gartside, P. M. (*with* Glyn, Aneirin) Autohomeomorphism groups. (English summary) **2004g:54044**
Gerko, A. I. On the disjointness of some types of extensions of topological transformation semigroups. (Russian. Russian summary) **2004e:54034**
Glyn, Aneirin *see* **Gartside, P. M., 2004g:54044**
Hajduk, Bogusław (*with* Walczak, Rafał) Invariant metrics on G-spaces. (English summary) **2004c:54035**
Leibman, A. *see* **Bergelson, V., 2004d:54036**
Walczak, Rafał *see* **Hajduk, Bogusław, 2004c:54035**

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Adhikari, M. R. (*with* Rahaman, Masiur; Pramanik, L. K.; Parui, S.) Orbit spaces and their fundamental groups. (English summary)
Araújo, João (*with* Mitchell, J. D.; Silva, Nelson) On generating countable sets of endomorphisms. (English summary) **2004j:08002**
Biller, Harald Characterizations of proper actions. (English summary) **2004k:57043**
Çelıker, Y. *see* **Keskin, Refik**
Cheban, David N. (*with* Duan, Jinqiao; Gerko, A. I.) Heteroclinic points of multi-dimensional dynamical systems. (English summary) **2004b:37024**
Duan, Jinqiao *see* **Cheban, David N. et al., 2004b:37024**
Einsiedler, Manfred (*with* Lind, Douglas; Miles, Richard Craig; Ward, Thomas B.) Expansive subdynamics for algebraic $\mathbb{Z}^d$-actions. (English summary) **2004c:37033**
Gao, Su (*with* Pestov, Vladimir) On a universality property of some abelian Polish groups. (English summary) **2004m:22004**
Gerko, A. I. *see* **Cheban, David N. et al., 2004b:37024**

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— (*with* Pym, John; Strauss, Dona) Multiplications in additive compactifications of $\mathbb{N}$ and $\mathbb{Z}$. (English summary) **2004d:22003**
Jin, Yong *see* **Pei, Hui Sheng et al.**
Keskin, Refik (*with* Çelıker, Y.) A note on Stone-Cech compactification of a discrete semigroup. (English summary)
Lind, Douglas *see* **Einsiedler, Manfred et al., 2004c:37033**
Manoussos, Antonios (*with* Strantzalos, Polychronis) On the group of isometries on a locally compact metric space. (English summary) **2004a:54045**
Marques-Smith, M. Paula O. (*with* Sullivan, R. P.) Partial orders on transformation semigroups. (English summary) **2004i:20116**
Miles, Richard Craig *see* **Einsiedler, Manfred et al., 2004c:37033**
Mitchell, J. D. *see* **Araújo, João et al., 2004j:08002**
Olsen, Niels Holm *see* **Swann, Andrew, 2004f:68174**
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Pei, Hui Sheng (*with* Zhai, Hong Cun; Jin, Yong) α-congruences on the sandwich semigroups $S(X, Y, \theta)$. (Chinese. English and Chinese summaries)
Pestov, Vladimir *see* **Gao, Su, 2004m:22004**
Pramanik, L. K. *see* **Adhikari, M. R. et al.**
Pym, John *see* **Hindman, Neil et al., 2004d:22003**
Rahaman, Masiur *see* **Adhikari, M. R. et al.**
Shelekhov, A. M. *see* **Tolstikhina, Galina, 2004m:53028**
Silva, Nelson *see* **Araújo, João et al., 2004j:08002**
Strantzalos, Polychronis *see* **Manoussos, Antonios, 2004a:54045**
Strauss, Dona *see* **Hindman, Neil et al., 2004d:22003** *and* **(2004e:54001)**
Sullivan, R. P. *see* **Marques-Smith, M. Paula O., 2004i:20116**
Swann, Andrew (*with* Olsen, Niels Holm) Linear transformation groups and shape space. (English summary) **2004f:68174**
Tolstikhina, Galina (*with* Shelekhov, A. M.) Multipoint invariants of transformation groups, and three-webs defined by them. (Russian) **2004m:53028**
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Zdun, Marek Cezary On continuous iteration semigroups on the circle. (English summary) **2004k:39058**
Zhai, Hong Cun *see* **Pei, Hui Sheng et al.**

54H20 Topological dynamics [see also 28Dxx, 37Bxx]

Arai, Tatsuya (*with* Chinen, Naotsugu; Suda, Takayuki) Continuous maps of dendrites with finitely many branch points and nonwandering sets. (English summary) **2004b:54065**
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55M25 Degree, winding number

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55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space

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55M35 Finite groups of transformations (including Smith theory) [see also 57S17]

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55M99 None of the above, but in this section

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55Nxx Homology and cohomology theories [see also 57Txx]

55N05 Čech types

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55N10 Singular theory

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55N15 K-theory [see also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX.}

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55P65 Homotopy functors

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55Qxx Homotopy groups

55Q05 Homotopy groups, general; sets of homotopy classes

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55Q07 Shape groups

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55Q40 Homotopy groups of spheres

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55Q55 Cohomotopy groups

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55Q91 Equivariant homotopy groups [see also 19L47]

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55Rxx Fiber spaces and bundles [see also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]

55R05 Fiber spaces

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55R12 Transfer

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55R15 Classification

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55R20 Spectral sequences and homology of fiber spaces [see also 55Txx]

Kobayashi, Teiichi (*with* Yoshida, Toshio[2]) Stable extendibility of vector bundles over real projective spaces and bounds for the Schwarzenberger numbers $\beta(k)$. (English summary) **2004m:55021**
Yoshida, Toshio[2] *see* **Kobayashi, Teiichi, 2004m:55021**

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55R25 Sphere bundles and vector bundles

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Piccinini, R. *see* **Minatta, A. et al., 2004h:55010**
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55R37 Maps between classifying spaces

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55R40 Homology of classifying spaces, characteristic classes [see also 57Txx, 57R20]

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Kirwan, Frances Cohomology of moduli spaces. (English summary) **2004e:14044**
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55R45 Homology and homotopy of BO and BU; Bott periodicity

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55R50 Stable classes of vector space bundles, K-theory [see also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX.}

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55S37 Classification of mappings

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55Txx Spectral sequences [see also 18G40, 55R20]

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55Uxx Applied homological algebra and category theory [see also 18Gxx]

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55U25 Homology of a product, Künneth formula

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55U30 Duality

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57Mxx Low-dimensional topology

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57Nxx Topological manifolds

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57Pxx Generalized manifolds [see also 18F15]

57P05 Local properties of generalized manifolds

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57P10 Poincaré duality spaces

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57Qxx PL-topology

57Q05 General topology of complexes

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57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [see also 19B28]

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57Q12 Wall finiteness obstruction for CW-complexes

Items with secondary classifications in 57Q12

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57Q15 Triangulating manifolds

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57Q20 Cobordism

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57Q25 Comparison of PL-structures: classification, Hauptvermutung

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57Q30 Engulfing

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57Q35 Embeddings and immersions

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57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25.}

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Zomorodian, Afra *see* **Edelsbrunner, Herbert, 2004g:57002**

57Q60 Cobordism and concordance

Items with secondary classifications in 57Q60

Livingston, Charles Splitting the concordance group of algebraically slice knots. (English summary) **2004j:57009**

57Q91 Equivariant PL-topology

Items with secondary classifications in 57Q91

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57Q99 None of the above, but in this section

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57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx.}

57R10 Smoothing

Items with secondary classifications in 57R10

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57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)

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Minami, Haruo On framed cobordism classes of classical Lie groups. (English summary) **2004f:55003**
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57R17 Symplectic and contact topology

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— (*with* Eliashberg, Y.; Hofer, Helmut H. W.; Wysocki, K.; Zehnder, E.) Compactness results in symplectic field theory. (English summary) **2004m:53152**
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57R19 Algebraic topology on manifolds

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57R20 Characteristic classes and numbers

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57R58 Floer homology

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57R67 Surgery obstructions, Wall groups [see also 19J25]

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57S30 Discontinuous groups of transformations

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— *see also* **Freitas, Pedro J.**, **2004j:30085**
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57Txx Homology and homotopy of topological groups and related structures

57T05 Hopf algebras [see also 16W30]

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57T10 Homology and cohomology of Lie groups

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57T15 Homology and cohomology of homogeneous spaces of Lie groups

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57T20 Homotopy groups of topological groups and homogeneous spaces

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57T25 Homology and cohomology of H-spaces

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57T30 Bar and cobar constructions [see also 18G55, 55Uxx]

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57T35 Applications of Eilenberg-Moore spectral sequences [see also 55R20, 55T20]

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58–XX Global analysis, analysis on manifolds {For geometric integration theory, see 49Q15.}

58–01 Instructional exposition (textbooks, tutorial papers, etc.)

Agricola, Ilka (*with* Friedrich, Thomas) ★ Global analysis. **2004f:58001**
Friedrich, Thomas *see* **Agricola, Ilka, 2004f:58001**
Guillemin, Victor (*with* Pollack, Alan) ★ Topología diferencial. (Spanish) [Differential topology] **2004j:58001**
Lam, Kai S. ★ Topics in contemporary mathematical physics. **2004i:58001**
(Nestke, Andreas) *see* **Agricola, Ilka, 2004f:58001**
(Palmas Velasco, Oscar A.) *see* **Guillemin, Victor, 2004j:58001**
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58–02 Research exposition (monographs, survey articles)

Jost, Jürgen The principles and concepts of geometric analysis. (English and Chinese summaries) **2004f:58002**
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58–06 Proceedings, conferences, collections, etc.

(Hajac, Piotr M.) *see* **Noncommutative geometry and quantum groups, 2004i:58002**
(Janeczko, Stanisław) *see* **Geometry and topology of caustics—CAUSTICS '02, 2004k:58001**
(Pusz, Wiesław) *see* **Noncommutative geometry and quantum groups, 2004i:58002**
(Siersma, Dirk) *see* **Geometry and topology of caustics—CAUSTICS '02, 2004k:58001**
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Spectral Theory and Geometry ★ Séminaire de Théorie Spectrale et Géométrie. Vol. 20. Année 2001–2002. (French) [Seminar on Spectral Theory and Geometry. Vol. 20. Year 2001–2002] **2004a:58001**
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(Al′beverio, S. A.) *see* **Nonlinear hyperbolic equations, spectral theory, and wavelet transformations, 2004h:00016**
(Auscher, Pascal) *see* **Heat kernels and analysis on manifolds, graphs, and metric spaces, 2004k:00018**
(Brézis, Haïm) *see* **Morse theory, minimax theory and their applications to nonlinear differential equations, 2004k:00019**
(Cardona, Alexander) *see* **Geometric and topological methods for quantum field theory, 2004d:81003**
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(Grabowski, Janusz) *see* **Classical and quantum integrability, 2004d:00024**
(Grigor'yan, Alexander) *see* **Heat kernels and analysis on manifolds, graphs, and metric spaces, 2004k:00018**
(Hildebrandt, Stefan) *see* **Geometric analysis and nonlinear partial differential equations, 2004d:00025**
(Jamiołkowski, Andrzej) *see* **Proceedings: Symposium on Mathematical Physics**
(Karcher, Hermann) *see* **Geometric analysis and nonlinear partial differential equations, 2004d:00025**
(Kowalski, Oldřich) *see* **Differential geometry and its applications, 2004a:53002**
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(Leray, Jean) *see* **Proceedings: Jean Leray Conference, '99, 2004j:00035**
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(Maeda, Yoshiaki) *see* **Noncommutative geometry and string theory, 2004h:00024**
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(Mrugała, Ryszard) *see* **Proceedings: Symposium on Mathematical Physics**
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(Urbański, Paweł) *see* **Classical and quantum integrability, 2004d:00024**
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Classical and quantum integrability ★ Classical and quantum integrability. **2004d:00024**
Clifford algebras ★ Clifford algebras. **2004i:00012**
Conference:
Clifford Algebras and their Applications in Mathematical Physics ★ Clifford algebras. **2004i:00012**
Contemporary Mathematics ★ Heat kernels and analysis on manifolds, graphs, and metric spaces. **2004k:00018**
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Moser, Jürgen K. ★ Dedicated to the memory of Jürgen K. Moser.
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Noncommutative geometry and string theory ★ Noncommutative geometry and string theory. **2004h:00024**
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Toruń ★ Proceedings of the XXXIV Symposium on Mathematical Physics.
Villa de Leyva ★ Geometric and topological methods for quantum field theory. **2004d:81003**
Warsaw ★ Classical and quantum integrability. **2004d:00024**
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58Axx General theory of differentiable manifolds [see also 32Cxx]

58A03 Topos-theoretic approach to differentiable manifolds

Items with secondary classifications in 58A03

Guts, A. K. The Deutsch theory of the multiverse and physical constants. (English and Russian summaries) **2004j:83149**
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Zvyagintsev, A. A. The Levi-Civita connection in the Kock-Lawvere synthetic differential geometry. (Russian. English summary) **2004a:18010**

58A05 Differentiable manifolds, foundations

Barden, Dennis (*with* Thomas, Charles B.) ★ An introduction to differential manifolds. **2004h:58001**
Gadea, P. M. (*with* Grifone, J.; Muñoz Masqué, Jaime) Manifolds modelled over free modules over the double numbers. (English summary) **2004e:58002**
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Güner, Erdal The tangent bundle on C^1 fuzzy manifolds. (English summary)
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Mikenberg, M. A. Some topological properties of manifolds over a local algebra that admit holomorphic embeddings. (Russian) **2004i:58003**
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Kock, Anders Differential calculus and nilpotent real numbers. **2004i:51012**
Mallios, Anastasios Abstract differential geometry, singularities, and physical applications. (*see* **2004c:00022**)
Mikulski, Włodzimierz M. On the contact (k, r)-coelements. (English summary) **2004b:58003**
Sharpe, Richard An introduction to Cartan geometries. (English summary) **2004f:53023**

58A10 Differential forms

Agarwal, Ravi P. (*with* Ding, Shusen) Advances in differential forms and the A-harmonic equation. (English summary) **2004e:58003**
Akbari, Monireh Integrability and closedness of holomorphic one-forms. (English summary) **2004m:58001**
Ding, Shusen *see* **Agarwal, Ravi P., 2004e:58003**
Kuz′minov, V. I. (*with* Shvedov, I. A.) On a compactness theorem for differential forms. (Russian. Russian summary) **2004c:58003**
Robinson, David Clyde Generalized forms and Einstein's equations. (English summary) **2004h:58002**
Selvaggi, R. (*with* Sisto, Irene) Value problems for differential forms on C^1-domains. (English summary) **2004k:58002**
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Banos, Bertrand On symplectic classification of effective 3-forms and Monge-Ampère equations. (English summary) **2004k:58003**
Dacorogna, Bernard Existence and regularity of solutions of $d\omega = f$ with Dirichlet boundary conditions. (English summary) **2004i:35048**
Dassios, George *see* **Lindell, I. V., 2004e:78002**
Domański, Paweł (*with* Jakubczyk, B.) Linear continuous division for exterior and interior products. (English summary) **2004e:46034**
Elsässer, Klaus *see* **Molnár, Pál G., 2004g:83063**
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Harvey, Reese (*with* Lawson, H. Blaine, Jr.; Zweck, John) The de Rham-Federer theory of differential characters and character duality. (English summary) **2004h:53107**
Jakubczyk, B. *see* **Domański, Paweł, 2004e:46034**
Lawson, H. Blaine, Jr. *see* **Harvey, Reese et al., 2004h:53107**
Lindell, I. V. (*with* Dassios, George) Helmholtz theorem for multiform fields. (English summary) **2004e:78002**
Molnár, Pál G. (*with* Elsässer, Klaus) Uniqueness of the electrostatic solution in Schwarzschild space. (English summary) **2004g:83063**
Neeb, Karl-Hermann (*with* Vizman, C.) Flux homomorphisms and principal bundles over infinite dimensional manifolds. (English summary) **2004g:22016**
(Nestke, Andreas) *see* **Agricola, Ilka, 2004f:58001**
Peradzyński, Zbigniew Helicity conservation laws. (English summary) (*see* **2004d:76005**)
Smol′nikova, M. V. (*with* Stepanov, S. E.) Fundamental first-order differential operators on exterior and symmetric forms. (Russian) **2004c:53028**
Stepanov, S. E. *see* **Smol′nikova, M. V., 2004c:53028**
Vizman, C. *see* **Neeb, Karl-Hermann, 2004g:22016**
Xing, Yuming Weighted integral inequalities for solutions of the A-harmonic equation. (English summary) **2004b:35123**
Zweck, John *see* **Harvey, Reese et al., 2004h:53107**

58A12 de Rham theory [see also 14Fxx]

Lima, Elon Lages ★ Introducción a la cohomología de deRham. (Spanish) [Introduction to de Rham cohomology]
Mallios, Anastasios (*with* Rosinger, Elemer E.) Dense singularities and de Rham cohomology. (English summary) **2004e:58004**
— (*with* Raptis, Ioannis) Finitary Čech-de Rham cohomology. (English summary) **2004f:58003**
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58A14 Hodge theory [see also 14C30, 14Fxx, 32J25, 32S35]

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58A15 Exterior differential systems (Cartan theory)

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Bigolin, Bruno (*with* Perelli Cippo, Claudio) Group-theoretic properties of λ-characteristic systems. (Italian. English summary) **2004f:58004**
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Juráš, Martin Variational symmetries and Lie reduction for Frobenius systems of even rank. (English summary) **2004d:58001**
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Krbek, Michael (*with* Musilová, Jana) Representation of the variational sequence by differential forms. (English summary) **2004g:58020**
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58A17 Pfaffian systems

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Chazal, Frédéric Analytic Rolle foliations: global and local structure. (Spanish) **2004b:37093**
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58A20 Jets

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Francaviglia, Mauro (*with* Palese, Marcella) Generalized Jacobi morphisms in variational sequences. (English summary) **2004b:70053**
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— The natural operators lifting projectable vector fields to some fiber product preserving bundles. (English summary) **2004m:58005**
— The natural operators $T^{(0,0)} \rightsquigarrow T^{(1,1)}T^{(r)}$. (English summary) **2004h:58004**
— (*with* Tomáš, Jiří M.) Product preserving bundle functors on fibered fibered manifolds. (English summary) **2004j:58002**
— On some natural operators in vector fields. (English summary) **2004a:58002**
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Muñoz Masqué, Jaime *see* **Martínez Ontalba, C. et al., 2004g:53030** *and* **Castrillón López, M., 2004j:58016**
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Panák, Martin Natural operators in the view of Cartan geometries. (English summary) **2004d:58003**
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Šeděnková, Jana On the invariant variational sequences in mechanics. (English summary) **2004d:58025**
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Zaitsev, Dmitri Unique determination of local CR-maps by their jets: a survey. (English summary) **2004i:32056**

58A25 Currents [see also 32C30, 53C65]

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Caaarutto, D. Generalized densities and distributional adjoints of natural operators. (English summary) **2004f:58048**
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58A30 Vector distributions (subbundles of the tangent bundles)

Inaba, Takashi Open Engel manifolds admitting compact characteristic leaves. (English summary) **2004i:58005**
Ionescu, Adrian M. Skew-symmetric frames on spaces with constant curvature. (English summary)
Jakubczyk, B. (*with* Zhitomirskii, M.) Distributions of corank 1 and their characteristic vector fields. (English summary) **2004c:58006**
Jensen, Cathrine Vembre Geometric structures on solution spaces of integrable distributions. (English summary) **2004c:58007**
Kuznetsov, G. V. Vectors of second order and hyperdistributions in the Euclidean space E^n. (Russian. English and Russian summaries)
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Bouyakoub, Abdelkader *see* **Belkhelfa, Mohamed, 2004e:53114**
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58A32 Natural bundles

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Cabras, Antonella (*with* Kolář, Ivan) On the covariant exterior differentiation on Weil bundles. (English summary) **2004c:58009**
— (*with* Kolář, Ivan) Prolongation of projectable tangent valued forms. (English summary) **2004b:58004**
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— On some natural operators in vector fields. (English summary) **2004a:58002**
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Martínez, Eduardo *see* **Mestdag, Tom et al., 2004c:53027**
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Matteucci, Paolo Einstein-Dirac theory on gauge-natural bundles. (English summary) **2004h:58023**
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Mikulski, Włodzimierz M. Non-existence of some natural operators on connections. (English summary) **2004f:58007**
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58A35 Stratified sets [see also 32S60]

Bekka, Karim (*with* Trotman, D. J. A.) On metric properties of stratified sets. (English summary) **2004c:58013**
Grinberg, Anna Resolutions of p-stratifolds with isolated singularities. (English summary) **2004m:58006**
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58Cxx Calculus on manifolds; nonlinear operators [see also 46Txx, 47Hxx, 47Jxx]

58C05 Real-valued functions

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58C06 Set valued and function-space valued mappings [see also 47H04, 54C60]

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58C10 Holomorphic maps [see also 32–XX]

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58C20 Differentiation theory (Gateaux, Fréchet, etc.) [see also 26Exx, 46G05]

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58C25 Differentiable maps

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58C30 Fixed point theorems on manifolds [see also 47H10]

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58C35 Integration on manifolds; measures on manifolds [see also 28Cxx]

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58C40 Spectral theory; eigenvalue problems [see also 47J10, 58E07]

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58C50 Analysis on supermanifolds or graded manifolds

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58Dxx Spaces and manifolds of mappings [see also 46Txx, 53Cxx]

58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [see also 22E65, 57S05]

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58D07 Groups and semigroups of nonlinear operators [see also 17B65, 47H20]

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58D15 Manifolds of mappings [see also 46T10, 54C35]

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58D19 Group actions and symmetry properties

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58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [see also 28Cxx, 46T12]

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58D25 Equations in function spaces; evolution equations [see also 34Gxx, 35K90, 35L90, 35R15, 37Lxx, 47Jxx]

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58D29 Moduli problems for topological structures

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58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)

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58Exx Variational problems in infinite-dimensional spaces

58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel'man) theory, etc.)

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58E07 Abstract bifurcation theory

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58E11 Critical metrics

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58J05 Elliptic equations on manifolds, general theory [see also 35–XX]

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58J20 Index theory and related fixed point theorems [see also 19K56, 46L80]

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58J22 Exotic index theories [see also 19K56, 46L05, 46L10, 46L80, 46M20]

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58J26 Elliptic genera

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58J28 Eta-invariants, Chern-Simons invariants

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58J30 Spectral flows

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58J32 Boundary value problems on manifolds

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58Kxx Theory of singularities and catastrophe theory [see also 32Sxx, 37–XX]

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58K15 Topological properties of mappings

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58K25 Stability

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58K30 Global theory

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58K35 Catastrophe theory

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58K40 Classification; finite determinacy of map germs

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58K45 Singularities of vector fields, topological aspects

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58K55 Asymptotic behavior

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58K60 Deformation of singularities

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58K65 Topological invariants

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58K70 Symmetries, equivariance

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58Z05 Applications to physics

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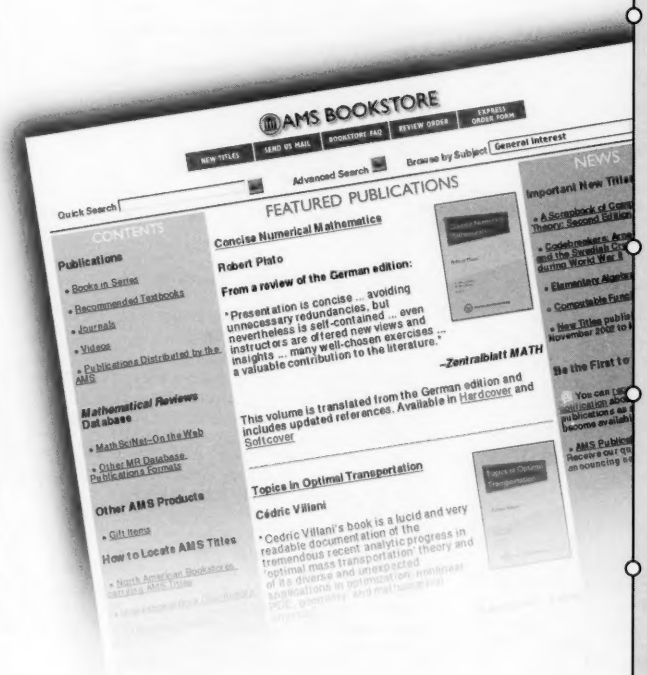

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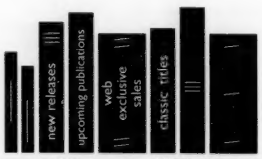

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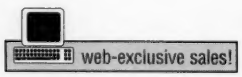

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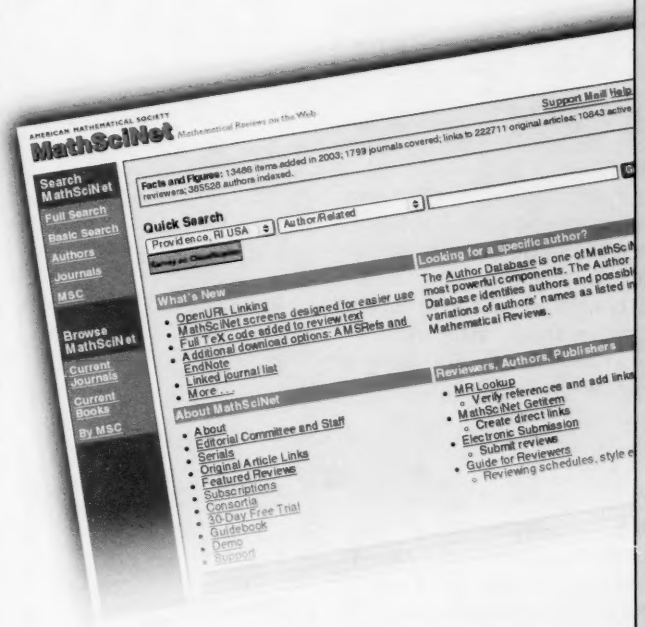

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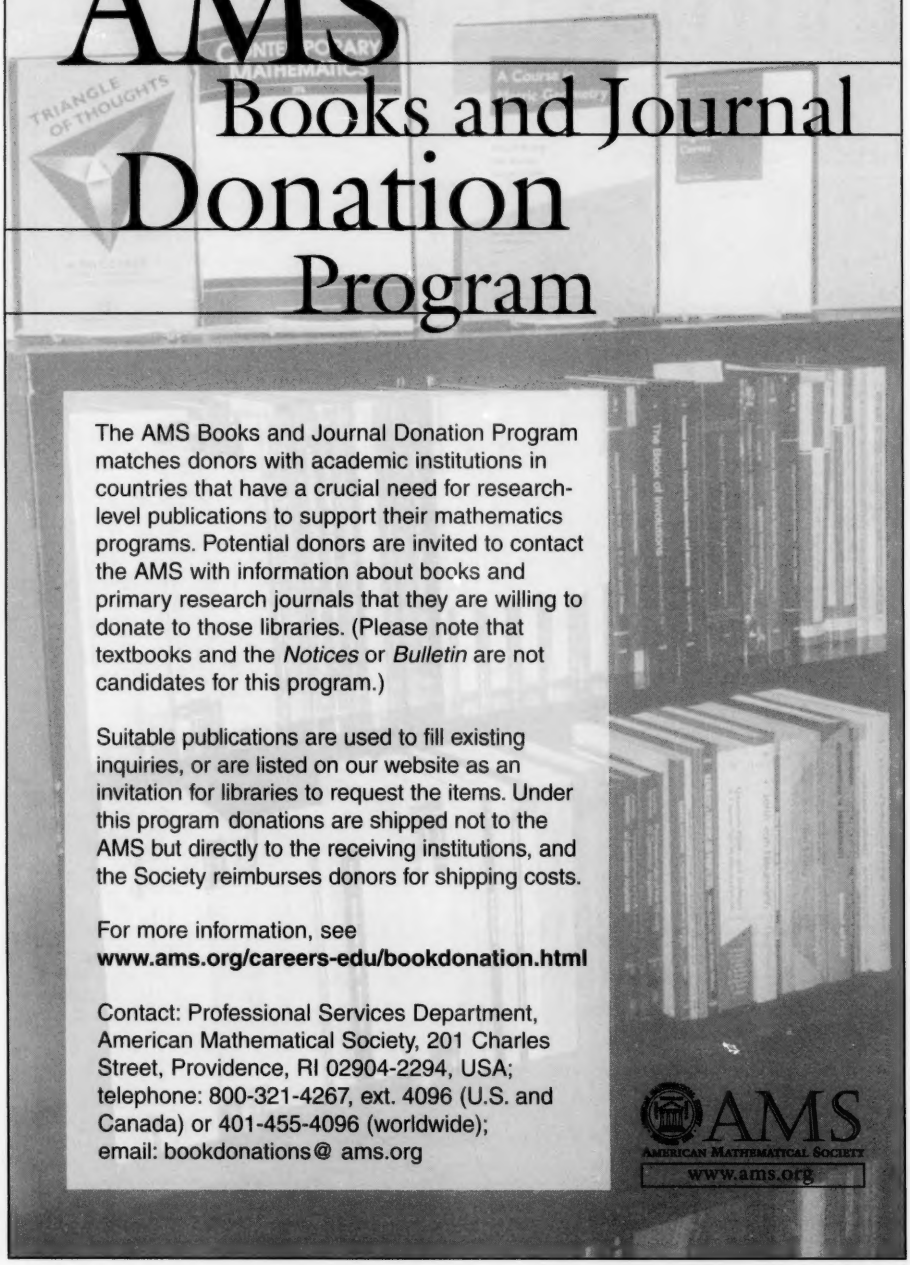

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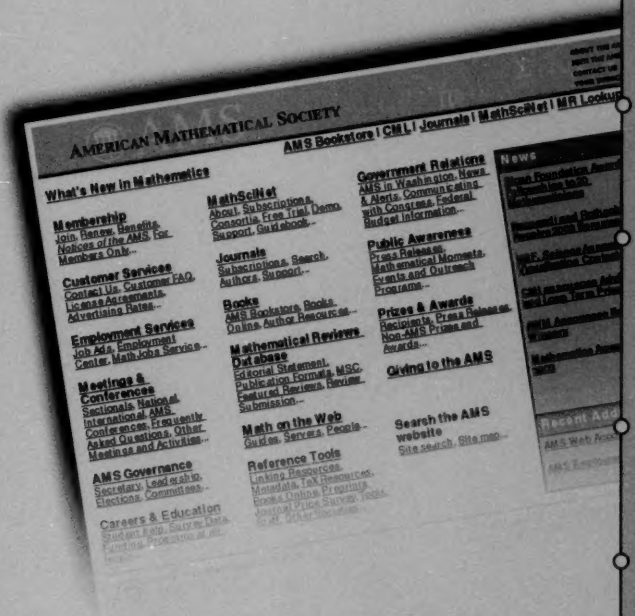

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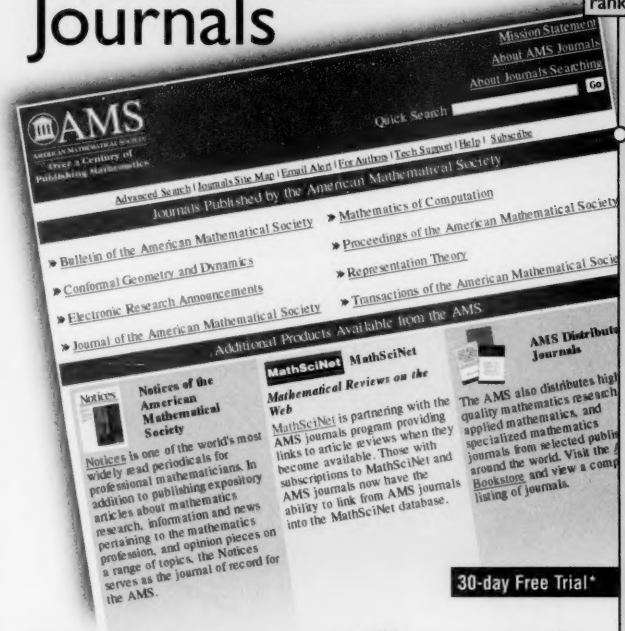

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